



County of Los Angeles
INTERNAL SERVICES DEPARTMENT

1100 North Eastern Avenue
Los Angeles, California 90063

"To enrich lives through effective and caring service"

Telephone: (323) 267-2101
FAX: (323) 264-7135

July 29, 2014

The Honorable Board of Supervisors
County of Los Angeles
383 Kenneth Hahn Hall of Administration
500 West Temple Street
Los Angeles, California 90012

Dear Supervisors:

**AUTHORIZE AND EXECUTE A SPECTRUM USE AGREEMENT
WITH THE LA-RICS AUTHORITY
TO ALLOW IT USE OF CERTAIN COUNTY RADIO FREQUENCIES
(ALL DISTRICTS – 3 VOTES)**

SUBJECT

Your Board of Supervisors is asked to approve and execute a Spectrum Use Agreement between the County of Los Angeles and the LA-RICS Joint Powers Authority to allow the Authority to use certain radio frequencies currently being used by the County's Internal Services Department (ISD), Sheriff's Department, and Fire Department.

ISD brings this joint recommendation before your Board pursuant to its Director's Countywide telecommunications responsibilities and duties under Los Angeles County Code of Ordinances section 2.81.700, et seq.

IT IS RECOMMENDED THAT THE BOARD:

1. Approve and execute a Spectrum Use Agreement between the County of Los Angeles and the LA-RICS Joint Powers Authority to allow the Authority to use certain 700 MHz and UHF radio frequencies currently being used by ISD, Sheriff, and Fire.
2. Authorize the Director of ISD, or his designee, to issue and execute any notifications, change orders, and amendments to the Spectrum Use Agreement, so long as such are cost neutral to the County.

PURPOSE/JUSTIFICATION OF RECOMMENDED ACTION

Background

The Los Angeles Regional Interoperable Communications System Joint Powers Authority (the "Authority") operates pursuant to a joint powers agreement under California Government Code section 6500, et seq., executed by its various public agency members during the first quarter of 2009 (the "JPA Agreement"). As its name anticipates, the purpose of the Authority is to build and operate a regionally-interoperable, public-safety radio and broadband communications system ("LA-RICS" or the "System").

For a public agency to participate as a member of the Authority, the agency must: (1) execute the JPA Agreement, and (2) contribute resources needed to build and operate the System [JPA Agreement §1.03]. To date, the County has done the following:

1. Execute the JPA Agreement

Your Board approved and authorized Los Angeles County to join the Authority as a member on February 3, 2009, when it became a signatory to the JPA Agreement, under County contract number 76933.

The County holds four of the seventeen seats on the Authority's Board of Directors. The County seats are designated for the CEO, Sheriff, Fire, and Health Services [JPA Agreement §2.01, sub. 5-8].

The CEO chairs the Authority's Board of Directors.

2. Contribute Resources

On May 29, 2014, the Authority's Board of Directors adopted a Funding Plan, with an opt-out period of 180-days, expiring November 24, 2014, for members to withdraw from the Authority (the "Funding Plan").

No financial or other contributions were required from members unless and until a Funding Plan was adopted [JPA Agreement §5.01]. Nevertheless, a withdrawing member remains responsible for financial liabilities incurred by the Authority during its membership, even prior to the adoption of a Funding Plan [JPA Agreement §6.02(a)].

On August 15, 2013, the Authority entered into contract with Motorola Solutions, Inc., a Delaware corporation, in the amount of \$280,354,954 to design, implement, and maintain a land mobile radio interoperable communications system ("LMR System") as part of LA-RICS (the "LMR Agreement") [LMR Agreement § 8.1.1].

Performance under the LMR Agreement is sequenced into phases, with each phase requiring a notice to proceed from the Authority [LMR Agreement §4.1.2.3]:

Phase 1 – Design

Phase 2 – Site Construction and Modification

Phase 3 – Components

Phase 4 – Implementation

Phase 5 – Maintenance (Optional)

The LMR System project is currently in Phase 1 – Design. However, for the Authority to comply with certain impending grant deadlines, the Authority authorized “early deployment” of some equipment purchases and implementation.

In addition to the financial contributions required under the Funding Plan, members are required under the JPA Agreement to contribute other assets as may be needed for creation of the LA-RICS, such as:

a. Radio Spectrum/Frequencies. Certain frequencies in the 400MHz (Sheriff, Fire) and 700MHz (ISD) spectrum will be sublicensed to the Authority [JPA Agreement §5.05]. These are the shared frequencies that are the subject of this current Board agenda item and the proposed Spectrum Use Agreement.

b. Tower/Antennae Sites. Approximately half of the proposed LA-RICS sites are County owned or controlled [JPA Agreement §5.07(a)]. The Authority will need to enter into a site access agreement for each of the approximately eighty-eight LMR project sites. CEO Real Estate Division is currently undertaking this process on behalf of the Authority.

c. Equipment. User equipment [JPA Agreement §5.05(d)] and/or dispatch center equipment [JPA Agreement §5.05(e)] from the County may be used by the Authority.

The Proposed Spectrum Use Agreement

When the Authority was first created, and prior to 2012, the LMR System was originally intended to be implemented in Ultra High Frequency spectrum in 470-512 MHz (the “T-Band”) currently licensed to the County and various other Authority members. However, as a result of H.R. 3630/Public Law No. 112-96 (Middle Class Tax Relief and Job Creation Act of 2012), all public safety users, including the Authority, would have to vacate the T-Band spectrum by no later than early 2021 (47 USC §1413), subject to the rules of FCC auction.

Instead, the Authority developed a hybrid transition plan for the LMR System to use both T-Band frequencies and 700 MHz narrowband frequencies allotted pursuant to the Southern California 700 MHz Regional Communications Plan Region #5. The County holds, or has reserved and has applications pending for, the Federal Communications Commission (“FCC”) licenses for certain 700 MHz and UHF frequencies, as identified in Appendix A of the proposed Spectrum Use Agreement (collectively, the “Shared Frequencies”).

The proposed Spectrum Use Agreement does not constitute an assignment or transfer of control of the underlying FCC licenses to the Shared Frequencies, nor does it limit or otherwise modify the County’s rights and obligations under FCC rules and regulations [Spectrum Use Agreement ¶ 2.1]. The Authority, in effect, would operate as a sub-licensee to the County. The FCC allows for such sharing of radio frequencies pursuant to 47 C.F.R. §90.179.

The County reserves the right, in its sole discretion, to terminate the Spectrum Use Agreement, with or without cause, at any time, with twelve (12) months advance written notification [Spectrum Use Agreement ¶ 3.1; JPA Agreement §5.05].

Implementation of Strategic Plan Goals

The recommended Spectrum Use Agreement supports County Strategic Plan Goals Number 1 for Operational Effectiveness, by providing timely delivery of customer oriented and efficient public services, as the County will be able to participate in the design, testing, implementation, operation and use of a regional interoperable radio system in support of public safety.

FISCAL IMPACT/FINANCING

There is no net County cost for the Spectrum Use Agreement.

The Authority is required to reimburse the County for any costs for frequency licensing before the FCC as it relates to this Spectrum Use Agreement or the Shared Frequencies [Spectrum Use Agreement ¶ 2.3].

Impact on County Operating Budget

There is no immediate or direct impact to County staff as a result of the Spectrum Use Agreement. The County's planned migration to LA-RICS may impact the County if the Authority does not chose to subscribe to post-implementation maintenance services from ISD's Telecom Branch. ISD will continue to work with the CEO in an effort to mitigate this risk. CEO, Sheriff, and Fire are in support of ISD providing post-implementation LMR System maintenance to the Authority.

FACTS AND PROVISIONS/LEGAL REQUIREMENTS

The Spectrum Use Agreement terms and conditions were negotiated by representatives from ISD, Sheriff, and Fire, to ensure that it accurately reflects the parties' expectations for use of the Shared Frequencies, and to confirm the parties' rights and responsibilities remain consistent with those previously agreed-to in the JPA Agreement.

Sheriff has submitted a letter (attached) confirming that it joins in recommending that Your Board approve the Spectrum Use Agreement, and itself has substantively approved the proposed agreement.

Fire likewise has submitted a letter (attached) confirming that it joins in recommending that Your Board approve the Spectrum Use Agreement, and itself has substantively approved the proposed agreement.

County Counsel represents both the Authority and the County, and has approved the Spectrum Use Agreement as to form.

On June 5, 2014, the Authority's Board of Directors delegated authority to its Executive Director to execute the Spectrum Use Agreement, as attached, or in a form substantially similar.

ENVIRONMENTAL DOCUMENTATION

Execution of the Spectrum Use Agreement is exempt from review under the California Environmental Quality Act (CEQA) because it is an activity excluded from the definition of a project by Section 15378(b)(2) and (b)(5), as well as Section 15061(b)(3) of the State CEQA Guidelines.

The use of the Shared Frequencies is also exempt from CEQA because CEQA does not apply when it can be seen with certainty that there is no possibility of a significant effect on the environment. Specifically, approval of the Spectrum Use Agreement is an administrative activity of government that will not result in direct or indirect physical changes to the environment.

IMPACT ON CURRENT SERVICES (OR PROJECTS)

The Authority will coordinate all activity under the Spectrum Use Agreement with the County to ensure that there is minimal or no impact on operations [Spectrum Use Agreement ¶¶ 1.6-1.8]

Sheriff and Fire will not release, and will continue to use, their UHF spectrum portion of the Shared Frequencies until (1) the LMR System has been fully tested and deemed operational, and (2) they have agreed to transition over to the LMR System [Spectrum Use Agreement ¶ 1.2].

ISD will release its 700 MHz portion in the Shared Frequencies forthwith.

Earlier in this fiscal year, the Authority helped arrange for repurposing of approximately \$1.4 million in unused and expiring Urban Area Security Initiative 2010 grant funds so that ISD could upgrade its Countywide Integrated Radio System ("CWIRS") to a Project 25 Phase 2 mobile radio standard at no cost to the County. On March 4, 2014, Your Board delegated authority to the Director of ISD to enter into a CWIRS upgrade agreement with Harris Corporation. This upgrade to CWIRS allows ISD to make more efficient use of its available 800 MHz bandwidth, and frees-up its 700 MHz channels for use by the Authority.

CONCLUSION

By authorizing and executing the Spectrum Use Agreement, the County will provide the Authority with a significant portion of the radio frequency bandwidth needed for the Authority to design, test, implement, and operate the LMR System portion of LA-RICS.

The Executive Office of the Board of Supervisors is requested to return three stamped copies of the approved Spectrum Use Agreement to the Director of ISD.

The Honorable Board of Supervisors

7/29/2014

Page 6

Respectfully submitted,

A handwritten signature in dark ink, appearing to read "JE Jones". The signature is written in a cursive, somewhat stylized font.

JIM JONES

Director

JJ:JG:sg

Enclosures

c: Chief Executive Office
County Counsel
Chief Information Officer

SPECTRUM USE AGREEMENT

This SPECTRUM USE AGREEMENT (hereafter referred to as the "Spectrum Agreement") is made and entered into as of the Effective Date by and between the LOS ANGELES REGIONAL INTEROPERABLE COMMUNICATIONS SYSTEM AUTHORITY, a joint powers authority created under the laws of the State of California (the "Authority"), and the COUNTY OF LOS ANGELES, a political subdivision of the State of California (the "County"). The Authority and the County are sometimes collectively referred to as the "Parties," and sometimes individually and generically as a "Party."

RECITALS

R1. The Authority operates pursuant to a Joint Powers Agreement under California *Government Code* section 6500, *et seq.*, executed by its various public agency members ("Members") during the first quarter of 2009, including the County on February 3, 2009 as County contract number 76933 (the "JPA Agreement");

R2. On August 15, 2013, the Authority entered into contract with Motorola Solutions, Inc., a Delaware corporation, to design and implement a land mobile radio interoperable communications system ("LMR System") for use by its public entity Members, as part of the planned Los Angeles Regional Interoperable Communications System ("LA-RICS"). That contract, Authority agreement No. LA-RICS 007, is hereinafter referred to as the "LMR Agreement";

R3. Prior to 2012, the LMR System was originally intended to be implemented in Ultra High Frequency ("UHF frequencies") spectrum in 470-512 MHz ("the T-Band") currently licensed to the County and various other Members of the Authority. But, as a result of H.R. 3630/Public Law No. 112-96 (Middle Class Tax Relief and Job Creation Act of 2012), all public safety users, including the Authority, would have to, subject to the rules of the FCC auction, vacate the T-Band spectrum by no later than early 2021 (47 USC §1413). Instead, the Authority has developed a hybrid transition plan for the LMR System to include both T-Band frequencies and 700 MHz narrowband frequencies allotted pursuant to the Southern California 700 MHz Regional Communications Plan Region #5;

R4. In the absence of access to the T-Band spectrum, the Authority wishes to share certain 700 MHz and UHF frequencies of the County for the LMR System;

R5. The County holds or has applications pending for one or more valid Federal Communications Commission (FCC) licenses (the "Licenses") for certain 700 MHz and UHF frequencies (collectively the "Shared Frequencies"), as identified in Appendix A, for use by its Fire Department, Sheriff's Department, and Internal Services Department in the Countywide Integrated Radio System ("CWIRS"). CWIRS is used by a number of County departments, including Health Services, Public Work, Probation, Animal Care & Control, and the Internal Services Department, for day-to-day operations, and is the County's primary disaster recovery mobile communications system in a major emergency incident;

R6. The County is currently using, and/or has intended public safety purposes for, the Shared Frequencies, separate and apart from LA-RICS;

R7. Pursuant to 47 C.F.R. §90.179, the FCC allows for sharing of radio frequencies under certain specified conditions;

R8. Section 5.05 of the JPA Agreement, operates as a statute of frauds, requiring that frequency sharing between any Member and the Authority is valid and enforceable only by written agreement; and

R9. The County desires to assist the Authority by allowing the Authority to use the Shared Frequencies to design, test, implement and operate the LMR System, per the terms and conditions of this Spectrum Agreement.

NOW THEREFORE, based upon the foregoing Recitals, and in consideration of the obligations herein contained, the Authority and County agree as follow:

1.0 Sharing of Frequencies

- 1.1 The Authority may install the Shared Frequencies set forth in Appendix A into the infrastructure of its radio network and allow governmental entities that are Members, Affiliates or Subscribers of the Authority to install the Shared Frequencies into subscriber equipment (mobile and portable units) for the purpose of transmitting and receiving public safety communications through the LMR System. The Shared Frequencies will be integrated into the LMR System pursuant to a final system design to be determined and approved by the Authority.
- 1.2 The Authority acknowledges and agrees that the UHF Frequencies that make up the Share Frequencies as identified in Appendix A, are currently being used by the County's Fire and Sheriff's Department, and that these departments will not release the UHF frequencies for full operational use by the Authority until such time as the LMR System has been fully tested, deemed operational, and these departments have agreed to transition over to the new LMR System.
- 1.3 Use of the Shared Frequencies is limited to the locations and technical parameters authorized pursuant to the Licenses, as well as by the terms and conditions of this Spectrum Agreement. The Authority acknowledges and agrees that expanded use of the Shared Frequencies by the Authority within the current geographic coverage area of the Licenses may require County to apply for and obtain license modifications from the FCC. Pursuant to Section 5.05 (Sharing of Frequencies) of the JPA Agreement, the Authority shall pay all fees associated with such license modifications.
- 1.4 The Authority agrees to limit use of the Shared Frequencies to Members, Subscribers or Affiliates of the Authority that are eligible for separate authorizations in the Public Safety Pool pursuant to Section 90.20(a) of the FCC's rules (47 C.F.R. § 90.20(a)), and

further agrees that use of the Shared Frequencies shall be limited to purposes compliant with the requirements of Part 90 of the FCC's rules.

- 1.5 The Authority will only implement radio equipment that meets or exceeds all applicable communication industry standards, including but not limited to Parts 90 and 101 of the FCC Rules and Regulations.
- 1.6 The Authority is responsible for mitigating any interference issues caused or created by the use of the Shared Frequencies. If the Authority's equipment causes interference to other users, the Authority must fully cooperate with the County, the injured party, and the FCC, to eliminate the interference. The County reserves the right to turn off offending equipment if harmful interference cannot be eliminated.
- 1.7 The Authority agrees to coordinate use of the Shared Frequencies with the California Public-Safety Radio Association ("CPRA") and to resolve any interference experienced to or from adjacent or co-channel users.
- 1.8 County agrees to cooperate with the Authority and its vendors to allow for system testing on the Shared Frequencies. The Authority warrants and agrees (i) that such testing shall be conducted compliant with FCC rules and in a manner that will minimize the potential for interference, and any actual interference, to existing County operations, (ii) that County shall have an opportunity to pre-approve and observe the tests, and (iii) that the Authority and its vendors shall immediately cease any tests that in any way interferes with the County's operations as determined in the sole discretion of the County.

2. Licensee Control

- 2.1 This Spectrum Agreement does not constitute an assignment or transfer of control of the Licenses, and nothing in the Spectrum Agreement modifies or limits County's rights and obligations under the rules of the FCC or the Communications Act of 1934, as amended (the "Act"). County shall take appropriate steps to perfect and maintain Licenses in good standing with the FCC and make necessary applications to renew its Licenses in a timely manner. If County fails to do so, then the Authority shall so notify the County of its failure, and County shall, subject to the terms of this Spectrum Agreement and the JPA Agreement, take all reasonable actions necessary to perfect or maintain the Licenses.
- 2.2 In the event that the County is subject to fines or penalties for violations of the FCC's rules or the Act, and to the extent the violations are the result of acts or omissions of the Authority, another Member, or a subscriber or an affiliate of the Authority, then the Authority shall pay the relevant fines or penalties forthwith, as provided in Section 5.06 (Violations) of the JPA Agreement. Without limiting the foregoing, the Parties acknowledge and agree that the Authority is responsible to indemnify, defend, and hold harmless the County for, among other things, such fines, penalties, acts, and/or omissions pursuant to Section 7.16 (Indemnification) of the JPA Agreement.

- 2.3 While all frequency licensing will be performed by the County with all costs reimbursed to the County by the Authority, the County will promptly notify the Authority of any issues, questions, or requests for additional information that may come from the FCC. The County will also promptly respond to the FCC after first conferring with the Authority, unless events outside the control of the County prevent such consultation with the Authority.
- 2.4 The County will provide the Authority with copies of all licenses granted by the FCC for the Shared Frequencies, so that the Authority may post such licenses at the LMR System sites.

3. Term and Termination

- 3.1 The County reserves the right, in its sole discretion, to terminate this Spectrum Agreement, with or without cause, at any time. Subject to any shorter termination periods allowed to Members in the JPA Agreement, the County shall give written notification to the Authority at least twelve (12) months in advance of the termination date.
- 3.2 Prior to termination of this Spectrum Agreement, the Parties shall cooperate and take such steps as are reasonably necessary to minimize the impact of termination on public safety radio communications of the Parties.

4. Notices

- 4.1 Any notice required or permitted to be made hereunder shall be in writing and shall be delivered in the manner prescribed herein at the principal place of business of each Party. The Parties shall give notice by: (i) Personal delivery; or (ii) E-mail.
- 4.2 At any time, by providing written notice to the other Party to this Spectrum Agreement, any Party may change the place or e-mail address for giving notice. All written notices or correspondence sent in the described manner will be deemed given to a party on whichever date occurs earliest: (a) the date of personal delivery; or (b) the date of transmission, when sent by e-mail.
- 4.3 Any notice required or permitted to be made hereunder will be made to the following:

For the Authority:

Patrick J. Mallon, Executive Director
2525 Corporate Place, Suite 200
Los Angeles, California 90063
(323) 881-8291
Pat.Mallon@la-rics.org

For the County:

Jim Jones, Director
Internal Services Department
County of Los Angeles
1100 N. Eastern Avenue
Los Angeles, California 90063
(323) 267-2101
JJones@isd.lacounty.gov

5. Severability

If any one or more of the terms, provisions, promises, covenants, or conditions of this Spectrum Agreement were, to any extent, adjudged invalid or void for any reason whatsoever by a court of competent jurisdiction, each and all of the remaining terms, provisions, promises, covenants, and conditions of this Spectrum Agreement shall not be affected thereby and shall be valid and enforceable to the fullest extent permitted by law, unless such would materially frustrate the purpose of this Spectrum Agreement.

6. Assignment

This Spectrum Agreement may not be assigned by the Authority without the prior written consent of the County, which consent may be given or withheld in the County's sole and unfettered discretion. Any such attempted or purported assignment by the Authority in violation of this Section is null and void.

7. Governing Law

This Spectrum Agreement shall be interpreted, governed, and enforced under the substantive and procedural laws of the State of California, except to the extent that such are pre-empted by federal law. This Spectrum Agreement is executed and shall be performed in the State of California, by California public entities.

8. Headings & Initial Capitalizations

The section headings are for convenience only and are not to be construed as modifying or governing the language of the Spectrum Agreement.

9. Effective Date

This Spectrum Agreement shall become effective as of the date that it has been duly authorized and approved by the Authority's Board of Directors and the County's Board of Supervisors (the "Effective Date"). Thereafter, the Shared Frequencies shall be made available to the Authority pursuant to a mutually agreed-upon schedule.

10. Merger

This Spectrum Agreement, along with the JPA Agreement, is the complete and exclusive statement of understanding between the Parties, and supersedes any previous agreements, whether written or oral, and all communications, relating to the Authority's use of Shared Frequencies.

11. Authorization Warranty

Each Party represents and warranty that the person executing this Spectrum Agreement is a duly authorized agent who has actual authority to bind the Party to each and every term, condition, and obligation of this Spectrum Agreement, and that all requirements of the Party have been fulfilled to provide such actual authority.


[End of Terms & Conditions – Signature Page to Follow]

SPECTRUM USE AGREEMENT

IN WITNESS WHEREOF, the Authority has executed this Spectrum Agreement, or caused it to be duly executed; and the County of Los Angeles, by order of its Board of Supervisors, has caused this Spectrum Agreement to be executed on its behalf by the Chair of said Board and attested by the Executive Officer-Clerk of the Board of Supervisors thereof, the day and year first above written.

LA-RICS Authority

By


Patrick J. Mallon,
Executive Director

COUNTY OF LOS ANGELES

By

Chair, Board of Supervisors

ATTEST:

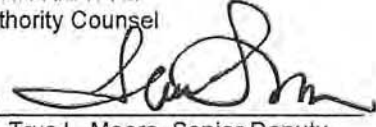
SACHI HAMAI
Executive Officer-Clerk
of the Board of Supervisors

By _____

APPROVED AS TO FORM:


JOHN KRATTLI
Authority Counsel

By


Truc L. Moore, Senior Deputy

JOHN KRATTLI
County Counsel

By


Patrice J. Salseda, Senior Deputy

COUNTY OF LOS ANGELES SHERIFF'S DEPARTMENT SHARED FREQUENCIES

APPENDIX A.1

Agency	Channel Configuration	Channel Name/Trunked Radio System Talkgroup	Downlink Frequency	TX Tone/NAC	Uplink Frequency	RX Tone/NAC	Remarks	Available Now	Available Date (PT=Post Transition or Date) Motorola will put in design, install, and test, but will not activate until agency approves.	Not Available
									PT	
LASD		LASD DATA 2	470.6875		473.6875	25 KHz			PT	
LASD		LASD DATA 3	470.7375		473.7375	25 KHz			PT	
LASD		LASD NEW	470.7500		473.7500	12.5 KHz Interstitial			PT	
LASD		LASD DATA 7	470.7625		473.7625	25 KHz			PT	
LASD		LASD NEW	470.7750		473.7750	12.5 KHz Interstitial			PT	
LASD		LASD PAGING	470.7875		473.7875	25 KHz			PT	
LASD		LASD NEW	470.8000		473.8000	12.5 KHz Interstitial			PT	
LASD		LASD DATA 8-N. CNY ONLY	470.8125		473.8125		NORTH COUNTY ONLY. SHARE WITH SOUTHBAY		PT	
LASD		LASD NEW	470.8250		473.8250	12.5 KHz Interstitial			PT	
LASD		LASD DATA 5	470.8375		473.8375	25 KHz			PT	
LASD		LASD NEW	470.8500		473.8500	12.5 KHz Interstitial			PT	
LASD		LASD DATA 4	470.8625		473.8625	25 KHz			PT	
LASD		LASD NEW	470.8750		473.8750	12.5 KHz Interstitial			PT	
LASD		LASD DATA 6	470.8875		473.8875	25 KHz			PT	
LASD		LASD NEW	470.9000		473.9000	12.5 KHz Interstitial			PT	
LASD		LASD DATA 10	470.9125		473.9125	25 KHz			PT	
LASD		LASD NEW	470.9250		473.9250	12.5 KHz Interstitial			PT	
LASD		LASD DATA 1	470.9375		473.9375	25 KHz			PT	
LASD		LASD	476.0125		479.0125		LASD ICIB-1/2 ENCRYPTED SIMPLEX		PT	
LASD		LASD	476.0250		479.0250		SIMPLEX-4	1	PT	
LASD		LASD	476.0375		479.0375		EOB-2 SIMPLEX		PT	
LASD		LASD	476.0500		479.0500		SEARCH & RESCUE "SAR-1" (NEW FREQ)		PT	
LASD		LASD	476.0625		479.0625		COMPTON STN METRO RPTR		PT	
LASD		LASD	476.0750		479.0750		ENCRYPTED VOICE (ENCRYP-A)	1		
LASD		LASD	476.0875		479.0875		SPL RPT2 MOB RX		PT	
LASD		LASD	476.1000		479.1000		PSB PARK TACTICAL RPT/DIR		PT	
LASD		LASD	476.1125		479.1125		FSB CIVIC CENTER REPEATER		PT	
LASD		LASD	476.1250		479.1250		FSB M.L. KING HOSP RPTR		PT	
LASD		LASD	476.1375		479.1375		FSB HARBOR HOSP REPEATER		PT	
LASD		LASD	476.1500		479.1500		FSB RANCHO HOSP REPEATER		PT	
LASD		LASD	476.1625		479.1625		FSB OLIVE VIEW HOSP REPEATER		PT	
LASD		LASD	476.1750		479.1750			1		
LASD		LASD	476.1875		479.1875		PALMDALE STN METRO RPTR		PT	
LASD		LASD	476.2000		479.2000		S-TAC 250 SIMPLEX	1		
LASD		LASD	476.2125		479.2125		COURT RPT5-A(162.2) / B(127.3)	1		
LASD		LASD	476.2250		479.2250		COURT RPT6-A(162.2) / B(127.3)	1		
LASD		LASD	476.2375		479.2375		COURT RPT7-A(162.2) / B(127.3)	1		
LASD		LASD	476.2500		479.2500		COURT RPT8-A(162.2) / B(127.3)	1		
LASD		LASD	476.2625		479.2625		COURT RPT9-A(162.2) / B(127.3)	1		
LASD		LASD	476.2750		479.2750		MISSION & ANTELOPE VLY COL		PT	
LASD		LASD	476.2875		479.2875		PIERCE COLLEGE RPTR		PT	
LASD		LASD	476.3000		479.3000		VALLEY COLLEGE RPTR		PT	
LASD		LASD	476.3125		479.3125		TRADE TECH COLLEGE RPTR		PT	
LASD		LASD	476.3250		479.3250		EAST LA COLLEGE RPTR		PT	
LASD		LASD	476.3375		479.3375		LA CITY COLLEGE RPTR		PT	
LASD		LASD	476.3500		479.3500		HARBOR COLLEGE RPTR		PT	
LASD		LASD	476.3625		479.3625		WEST LA COLLEGE RPTR		PT	
LASD		LASD	476.3750		479.3750		SOUTHWEST COLLEGE RPTR		PT	
LASD		LASD	476.3875		479.3875		WAS SAR-1, MOVED TO CH-4	1		
LASD		LASD	476.4000		479.4000		LASD/LARTCS RTC8UMA RPTR	1		
LASD		LASD	476.4125		479.4125		LASD FACILITIES FCILTY-1 SPX	1		
LASD		LASD	476.4250		479.4250			1		
LASD		LASD	476.4375		479.4375			1		
LASD		LASD	476.4500		479.4500			1		
LASD		LASD	476.4625		479.4625			1		
LASD		LASD	476.4750		479.4750			1		
LASD		LASD	476.4875		479.4875			1		
LASD		LASD	476.5000		479.5000			1		
LASD		LASD	476.5125		479.5125			1		
LASD		LASD	476.5250		479.5250			1		
LASD		LASD	476.5375		479.5375			1		
LASD		LASD	476.5500		479.5500			1		
LASD		LASD	476.5625		479.5625			1		
LASD		LASD	476.5750		479.5750			1		
LASD		LASD	476.5875		479.5875			1		
LASD		LASD	476.6000		479.6000			1		
LASD		LASD	476.6125		479.6125			1		
LASD		LASD	476.6250		479.6250			1		
LASD		LASD	476.6375		479.6375			1		
LASD		LASD	476.6500		479.6500			1		
LASD		LASD	476.6625		479.6625			1		
LASD		LASD	476.6750		479.6750			1		
LASD		LASD	476.6875		479.6875			1		
LASD		LASD	476.7000		479.7000			1		
LASD		LASD	476.7125		479.7125			1		
LASD		LASD	476.7250		479.7250			1		
LASD		LASD	476.7375		479.7375			1		
LASD		LASD	476.7500		479.7500			1		
LASD		LASD	476.7625		479.7625			1		
LASD		LASD	476.7750		479.7750			1		
LASD		LASD	476.7875		479.7875			1		

COUNTY OF LOS ANGELES SHERIFF'S DEPARTMENT
SHARED FREQUENCIES

APPENDIX A.1

LASD		LASD	476.8000	479.8000		1		
LASD		LASD	476.8125	479.8125		1		
LASD		LASD	476.8250	479.8250		1		
LASD		LASD	476.8375	479.8375		1		
LASD		LASD	476.8500	479.8500		1		
LASD		LASD	476.8625	479.8625		1		
LASD		LASD	476.8750	479.8750		1		
LASD		LASD	476.8875	479.8875		1		
LASD		LASD	476.9000	479.9000		1		
LASD		LASD	476.9125	479.9125		1		
LASD		LASD	476.9250	479.9250		1		
LASD		LASD	476.9375	479.9375		1		
LASD		LASD	476.9500	479.9500		1		
LASD		LASD	476.9625	479.9625		1		
LASD		LASD	476.9750	479.9750		1		
LASD		LASD	476.9875	479.9875		1		
LASD		LASD	477.0000	480.0000		1		
LASD		LASD	477.0125	480.0125		1		
LASD		LASD	477.0250	480.0250		1		
LASD		LASD	477.0375	480.0375		1		
LASD		LASD	477.0500	480.0500		1		
LASD		LASD	477.0625	480.0625		1		
LASD		LASD	477.0750	480.0750		1		
LASD		LASD	477.0875	480.0875		1		
LASD		LASD	477.1000	480.1000		1		
LASD		Pasadena System 7.7-1						
LASD		Chan 1	477.1125	480.1125				1
LASD		LASD	477.1250	480.1250		1		
LASD		LASD	477.1375	480.1375		1		
LASD		LASD	477.1500	480.1500		1		
LASD		LASD	477.1625	480.1625		1		
LASD		LASD	477.1750	480.1750		1		
LASD		LASD	477.1875	480.1875		1		
LASD		LASD	477.2000	480.2000		1		
LASD		Pasadena System 7.7-2						
LASD		Chan 1	477.2125	480.2125				1
LASD		LASD	477.2250	480.2250		1		
LASD		LASD	477.2375	480.2375		1		
LASD		LASD	477.2500	480.2500		1		
LASD		Pasadena System 7.7-1						
LASD		Chan 2	477.2625	480.2625				1
LASD		LASD	477.2750	480.2750		1		
LASD		LASD	477.2875	480.2875		1		
LASD		LASD	477.3000	480.3000		1		
LASD		LASD	477.3125	480.3125		1		
LASD		LASD	477.3250	480.3250		1		
LASD		LASD	477.3375	480.3375		1		
LASD		LASD	477.3500	480.3500		1		
LASD		Pasadena System 7.7-2						
LASD		Chan 2	477.3625	480.3625				1
LASD		LASD	477.3750	480.3750		1		
LASD		LASD	477.3875	480.3875		1		
LASD		LASD	477.4000	480.4000		1		
LASD		Pasadena System 7.7-1						
LASD		Chan 3	477.4125	480.4125				1
LASD		LASD	477.4250	480.4250		1		
LASD		LASD	477.4375	480.4375		1		
LASD		LASD	477.4500	480.4500		1		
LASD		LASD	477.4625	480.4625		1		
LASD		LASD	477.4750	480.4750		1		
LASD		LASD	477.4875	480.4875		1		
LASD		LASD	477.5000	480.5000		1		
LASD		Pasadena System 7.7-2						
LASD		Chan 3	477.5125	480.5125				1
LASD		LASD	477.5250	480.5250		1		
LASD		LASD	477.5375	480.5375		1		
LASD		LASD	477.5500	480.5500		1		
LASD		Pasadena System 7.7-1						
LASD		Chan 4	477.5625	480.5625				1
LASD		LASD	477.5750	480.5750		1		
LASD		LASD	477.5875	480.5875		1		
LASD		LASD	477.6000	480.6000		1		
LASD		LASD	477.6125	480.6125		1		
LASD		LASD	477.6250	480.6250		1		
LASD		LASD	477.6375	480.6375		1		
LASD		LASD	477.6500	480.6500		1		
LASD		Pasadena System 7.7-2						
LASD		Chan 4	477.6625	480.6625				1
LASD		LASD	477.6750	480.6750		1		
LASD		LASD	477.6875	480.6875		1		
LASD		LASD	477.7000	480.7000		1		
LASD		Pasadena System 7.7-1						
LASD		Chan 5	477.7125	480.7125				1
LASD		LASD	477.7250	480.7250		1		
LASD		LASD	477.7375	480.7375		1		
LASD		LASD	477.7500	480.7500		1		
LASD		LASD	477.7625	480.7625		1		
LASD		LASD	477.7750	480.7750		1		
LASD		LASD	477.7875	480.7875		1		
LASD		LASD	477.8000	480.8000		1		
LASD		Pasadena System 7.7-1						
LASD		Chan 5	477.8125	480.8125				1
LASD		LASD	477.8250	480.8250		1		
LASD		LASD	477.8375	480.8375		1		
LASD		LASD	477.8500	480.8500		1		
LASD		LASD	477.8625	480.8625		1		
LASD		LASD	477.8750	480.8750		1		
LASD		LASD	477.8875	480.8875		1		
LASD		LASD	477.9000	480.9000		1		

COUNTY OF LOS ANGELES SHERIFF'S DEPARTMENT
SHARED FREQUENCIES

APPENDIX A.1

LASD		LASD	477.9125	480.9125		1	
LASD		LASD	477.9250	480.9250		1	
LASD		LASD	477.9375	480.9375		1	
LASD		LASD	477.9500	480.9500		1	
LASD		LASD	477.9625	480.9625		1	
LASD		LASD	477.9750	480.9750		1	
LASD		LASD	477.9875	480.9875		1	
LASD		LASD	478.0000	481.0000		1	
LASD		LASD	478.0125	481.0125		1	
LASD		LASD	478.0250	481.0250		1	
LASD		LASD	478.0375	481.0375		1	
LASD		LASD	478.0500	481.0500		1	
LASD		LASD	478.0625	481.0625		1	
LASD		LASD	478.0750	481.0750		1	
LASD		LASD	478.0875	481.0875		1	
LASD		LASD	478.1000	481.1000		1	
LASD		LASD	478.1125	481.1125		1	
LASD		LASD	478.1250	481.1250		1	
LASD		LASD	478.1375	481.1375		1	
LASD		LASD	478.1500	481.1500		1	
LASD		LASD	478.1625	481.1625		1	
LASD		LASD	478.1750	481.1750		1	
LASD		LASD	478.1875	481.1875		1	
LASD		LASD	478.2000	481.2000		1	
LASD		LASD	478.2125	481.2125		1	
LASD		LASD	478.2250	481.2250		1	
LASD		LASD	478.2375	481.2375		1	
LASD		LASD	478.2500	481.2500		1	
LASD		LASD	478.2625	481.2625		1	
LASD		LASD	478.2750	481.2750		1	
LASD		LASD	478.2875	481.2875		1	
LASD		LASD	478.3000	481.3000		1	
LASD		LASD	478.3125	481.3125		1	
LASD		LASD	478.3250	481.3250		1	
LASD		LASD	478.3375	481.3375		1	
LASD		LASD	478.3500	481.3500		1	
LASD		LASD	478.3625	481.3625		1	
LASD		LASD	478.3750	481.3750		1	
LASD		LASD	478.3875	481.3875	PUBLIC SAFETY LAW-1 SPLX	1	
LASD		LASD	478.4000	481.4000	ENCRYPT VOICE "COMMON-1"	1	
LASD		LASD	478.4125	481.4125	PUBLIC SAFETY FIRE-1 SPLX	1	
LASD		LASD	478.4250	481.4250		1	
LASD		LASD	478.4375	481.4375	DA VMET/SDM/PMNA/SFV/SCV	1	
LASD		LASD	478.4500	481.4500		1	
LASD		LASD	478.4625	481.4625		1	
LASD		LASD	478.4750	481.4750	S-TAC 27R RPTR MOB RX	1	
LASD		LASD	478.4875	481.4875	PUBLIC SAFETY "ALL-1" SMPLX	1	
LASD		LASD	478.5000	481.5000		1	
LASD		LASD	478.5125	481.5125	LASD/LARTCS RTC7U/MA RPTR	1	
LASD		LASD	478.5250	481.5250	LA DA'S OFFICE SIMPLEX-A		PT
LASD		LASD	478.5375	481.5375		1	
LASD		LASD	478.5500	481.5500	LA CNTY FIRE U-19 RPT/DIR	1	
LASD		LASD	478.5625	481.5625		1	
LASD		LASD	478.5750	481.5750	LASD/EOB "EOB-1" PRTBL RPTR	1	
LASD		LASD	478.5875	481.5875		1	
LASD		LASD	478.6000	481.6000		1	
LASD		LASD	478.6125	481.6125	S-TAC 28R RPTR MOB RX	1	
LASD		LASD	478.6250	481.6250	S-TAC 29R RPTR MOB RX	1	
LASD		LASD	478.6375	481.6375	S-TAC 30R RPTR MOB RX	1	
LASD		LASD	478.6500	481.6500	LA CNTY FIRE U-20 RPT/DIR	1	
LASD		LASD	478.6625	481.6625		1	
LASD		LASD	478.6750	481.6750	PUBLIC SAFETY LAW-3 SMPLX	1	
LASD		LASD	478.6875	481.6875		1	
LASD		LASD	478.7000	481.7000	ENCRYPT VOICE REPEATER-1	1	
LASD		LASD	478.7125	481.7125		1	
LASD		LASD	478.7250	481.7250	PUBLIC SAFETY "ALL-3" SMPLX	1	
LASD		LASD	478.7375	481.7375		1	
LASD		LASD	478.7500	481.7500	LA CNTY FIRE U-21 RPT/DIR	1	
LASD		LASD	478.7625	481.7625		1	
LASD		LASD	478.7750	481.7750	ENCRYPTED VOICE (ENCRYP-C)	1	
LASD		LASD	478.7875	481.7875		1	
LASD		LASD	478.8000	481.8000		1	
LASD		LASD	478.8125	481.8125	DA ANTELOPE/PASD/SGV/SLA	1	
LASD		LASD	478.8250	481.8250		1	
LASD		LASD	478.8375	481.8375		1	
LASD		LASD	478.8500	481.8500	LA CNTY FIRE U-22 RPT/DIR	1	
LASD		LASD	478.8625	481.8625		1	
LASD		LASD	478.8750	481.8750	ENCRYPT VOICE REPEATER-2	1	
LASD		LASD	478.8875	481.8875	RTC9U/MA SMPLX & SPL RPT3 INPUT	1	
LASD		LASD	478.9000	481.9000	ENCRYPT VOICE "COMMON-3"	1	
LASD		LASD	478.9125	481.9125	PUBLIC SAFETY FIRE-3 SMPX	1	
LASD		LASD	478.9250	481.9250		1	
LASD		LASD	478.9375	481.9375		1	
LASD		LASD	478.9500	481.9500	LA CNTY FIRE U-23 RPT/DIR	1	
LASD		LASD	478.9625	481.9625	ENCRYPTED VOICE (ENCRYP-E)	1	
LASD		LASD	478.9750	481.9750	PUBLIC SAFETY LAW-5 SMPX		PT
LASD		LASD	478.9875	481.9875	LA CNTY FIRE U-24 RPT/DIR		PT
LASD		LASD	478.0000	482.0000	SAR "WINCH" & SRS TEST CH		PT
LASD	REPEATER	LASD CTAC-1	482.8125	485.8125	LASD Special Unit Operation #1		1
LASD		LASD NEW	482.8250	485.8250	12.5 KHz Interstitial		PT
LASD	REPEATER	LASD CTAC-2	482.8375	485.8375	LASD Special Unit Operation #2		1
LASD		LASD NEW	482.8500	485.8500	12.5 KHz Interstitial		PT
LASD	REPEATER	LASD DISP-5	482.8625	485.8625	LASD PIERCE COLLEGE		1
LASD		LASD NEW	482.8750	485.8750	12.5 KHz Interstitial		PT
LASD	REPEATER	LASD LTAC-2	482.8875	485.8875	LASD W. LA COLLEGE		1
LASD		LASD NEW	482.9000	485.9000	12.5 KHz Interstitial		PT

COUNTY OF LOS ANGELES SHERIFF'S DEPARTMENT
SHARED FREQUENCIES

APPENDIX A.1

LASD	REPEATER	LASD DISP-10	482.9125	485.9125	LASD LHS/WHD SIMPLEX			1
LASD		LASD NEW	482.9250	485.9250	12.5 KHz Interstitial		PT	
LASD	REPEATER	LASD DISP-6	482.9375	485.9375	LASD WAL/SDM SIMPLEX			1
LASD		LASD NEW	482.9500	485.9500	12.5 KHz Interstitial		PT	
LASD	REPEATER	LASD SV-2	482.9625	485.9625			PT	
LASD		LASD NEW	482.9750	485.9750	12.5 KHz Interstitial		PT	
LASD	REPEATER	LASD DISP-11	482.9875	485.9875	LASD TEM/ALD SIMPLEX			1
LASD		LASD NEW	483.0000	486.0000	12.5 KHz Interstitial		PT	
LASD	REPEATER	LASD ATAC-3	483.0125	486.0125	LASD Special Unit Operation #5			1
LASD		LASD NEW	483.0250	486.0250	12.5 KHz Interstitial		PT	
LASD	REPEATER	LASD DISP-15	483.0375	486.0375	LASD LAN/PLM SIMPLEX			1
LASD		LASD NEW	483.0500	486.0500	12.5 KHz Interstitial		PT	
LASD	REPEATER	LASD LTAC-TSB/CTAC-3	483.0625	486.0625	LASD TSB LTAC			1
LASD		LASD NEW	483.0750	486.0750	12.5 KHz Interstitial		PT	
LASD	REPEATER	LASD ATAC-1	483.0875	486.0875	LASD Special Unit Operation #3			1
LASD		LASD NEW	483.1000	486.1000	12.5 KHz Interstitial		PT	
LASD	REPEATER	LASD LTAC-8	483.1125	486.1125	LASD L.A. VALLEY COLLEGE			1
LASD		LASD NEW	483.1250	486.1250	12.5 KHz Interstitial		PT	
LASD	REPEATER	LASD DISP-14	483.1375	486.1375	LASD LKD/CER SIMPLEX			1
LASD		LASD NEW	483.1600	486.1500	12.5 KHz Interstitial		PT	
LASD	REPEATER	LASD ATAC-2	483.1625	486.1625	LASD Special Unit Operation #4			1
LASD		LASD NEW	483.1750	486.1750	12.5 KHz Interstitial		PT	
LASD	REPEATER	LASD LTAC-11	483.1875	486.1875	LASD CVS/SCT			1
LASD		LASD NEW	483.2000	486.2000	12.5 KHz Interstitial		PT	
LASD	REPEATER	LASD DISP-3	483.2125	486.2125	LASD EAST L.A. COLLEGE			1
LASD		LASD NEW	483.2250	486.2250	12.5 KHz Interstitial		PT	
LASD	REPEATER	LASD LTAC-7	483.2375	486.2375	LASD AVA/ELA SIMPLEX			1
LASD		LASD NEW	483.2500	486.2500	12.5 KHz Interstitial		PT	
LASD	REPEATER	LASD DISP-4	483.2625	486.2625	LASD CEN/CSN SIMPLEX			1
LASD		LASD NEW	483.2750	486.2750	12.5 KHz Interstitial		PT	
LASD	REPEATER	LASD EMERGENCY	483.2875	486.2875	LASD Preserved for legacy radios			1
LASD		LASD NEW	483.3000	486.3000	12.5 KHz Interstitial		PT	
LASD	REPEATER	LASD TSB DISP	483.3125	486.3125	LASD TSB DISP			1
LASD		LASD NEW	483.3250	486.3250	12.5 KHz Interstitial		PT	
LASD	REPEATER	LASD DET-2	483.3375	486.3375	LASD COURT REPEATER #5			1
LASD		LASD NEW	483.3500	486.3500	12.5 KHz Interstitial		PT	
LASD	REPEATER	LASD DISP-2	483.3625	486.3625	LASD LA CITY COLLEGE			1
LASD		LASD NEW	483.3750	486.3750	12.5 KHz Interstitial		PT	
LASD	REPEATER	LASD LTAC-3	483.3875	486.3875	LASD MDR/LNX SIMPLEX			1
LASD		LASD NEW	483.4000	486.4000	12.5 KHz Interstitial		PT	
LASD	REPEATER	LASD LTAC-12	483.4125	486.4125	LASD COURT REPEATER #2			1
LASD		LASD NEW	483.4250	486.4250	12.5 KHz Interstitial		PT	
LASD	REPEATER	LASD DISP-12	483.4375	486.4375	LASD S.W. COLLEGE			1
LASD		LASD NEW	483.4500	486.4500	12.5 KHz Interstitial		PT	
LASD	REPEATER	LASD LTAC-5	483.4625	486.4625	LASD COURT REPEATER #9			1
LASD		LASD NEW	483.4750	486.4750	12.5 KHz Interstitial		PT	
LASD	REPEATER	LASD LTAC-6	483.4875	486.4875	LASD COURT REPEATER #10			1
LASD		LASD NEW	483.5000	486.5000	12.5 KHz Interstitial		PT	
LASD	REPEATER	LASD DET-7	483.5125	486.5125	LASD COURT REPEATER #8			1
LASD		LASD NEW	483.5250	486.5250	12.5 KHz Interstitial		PT	
LASD	REPEATER	LASD 6UD	483.5375	486.5375	LASD SEB SIMPLEX 1/2			1
LASD		LASD NEW	483.5500	486.5500	12.5 KHz Interstitial		PT	
LASD	REPEATER	LASD SCC	483.5625	486.5625	LARTCS			1
LASD		LASD NEW	483.5750	486.5750	12.5 KHz Interstitial		PT	
LASD	REPEATER	LASD MAID-1	483.5875	486.5875	LARTCS			1
LASD		LASD NEW	483.6000	486.6000	12.5 KHz Interstitial		PT	
LASD	REPEATER	LASD DET-4	483.6125	486.6125	LASD COURT REPEATER #6			1
LASD		LASD NEW	483.6250	486.6250	12.5 KHz Interstitial		PT	
LASD	REPEATER	LASD ABD	483.6375	486.6375	ABD Backup			1
LASD		LASD NEW	483.6500	486.6500	12.5 KHz Interstitial		PT	
LASD	REPEATER	LASD DET-6	483.6625	486.6625	LASD COURT REPEATER #7			1
LASD		LASD NEW	483.6750	486.6750	12.5 KHz Interstitial		PT	
LASD	REPEATER	LASD DISP-8	483.6875	486.6875	LASD IDT SIMPLEX			1
LASD		LASD NEW	483.7000	486.7000	LASD CUSTODY REPEATER #1			1
LASD	REPEATER	LASD CUSTODY	483.7125	486.7125	LASD CUSTODY REPEATER #2			1
LASD		LASD NEW	483.7250	486.7250	12.5 KHz Interstitial		PT	
LASD	REPEATER	LASD DET-5	483.7375	486.7375	LASD CUSTODY REPEATER #5			1
LASD		LASD NEW	483.7500	486.7500	12.5 KHz Interstitial		PT	
LASD	REPEATER	LASD DISP-13	483.7625	486.7625	LASD NWK/PRV SIMPLEX			1
LASD		LASD NEW	483.7750	486.7750	12.5 KHz Interstitial		PT	
LASD	REPEATER	LASD MAID-3	483.7875	486.7875	LARTCS			1
LASD		LASD NEW	483.8000	486.8000	12.5 KHz Interstitial		PT	
LASD	REPEATER	LASD DET-3	483.8125	486.8125	LASD CUSTODY REPEATER #4			1
LASD		LASD NEW	483.8250	486.8250	12.5 KHz Interstitial		PT	
LASD	REPEATER	LASD PORTABLE RPT	483.8375	486.8375	LASD PORTABLE REPEATER			1
LASD		LASD NEW	483.8500	486.8500	12.5 KHz Interstitial		PT	
LASD	REPEATER	LASD LTAC-9	483.8625	486.8625	LASD COURT REPEATER #3			1
LASD		LASD NEW	483.8750	486.8750	12.5 KHz Interstitial		PT	
LASD	REPEATER	OCS LAC+USC MED	483.8875	486.8875	LASD OCS LAC+USC MED			1

COUNTY OF LOS ANGELES SHERIFF'S DEPARTMENT
SHARED FREQUENCIES

APPENDIX A.1

LASD		LASD NEW	483.9000		486.9000	12.5 KHz Interstitial		PT	
LASD	REPEATER	LASD LTAC-12	483.9125		486.9125	LASD LA TRADE TECH			1
LASD		LASD NEW	483.9250		486.9250	12.5 KHz Interstitial		PT	
LASD	REPEATER	LASD COURT SRVCE	483.9375		486.9375	LASD COURT REPEATER #1			1
LASD		LASD NEW	483.9500		486.9500	12.5 KHz Interstitial		PT	
LASD	REPEATER	LASD LTAC-4	483.9625		486.9625	LASD COURT REPEATER #4			1
LASD		LASD NEW	483.9750		486.9750	12.5 KHz Interstitial		PT	
LASD	REPEATER	LASD DISP-1	483.9875		486.9875	LASD MISSION COLLEGE			1
LASD		LASD NEW	484.0000		487.0000	12.5 KHz Interstitial		PT	
LASD	REPEATER	LASD LTAC-10	484.0125		487.0125	LASD CUSTODY REPEATER #6			1
LASD		LASD NEW	484.0250		487.0250	12.5 KHz Interstitial		PT	
LASD	REPEATER	LASD DISP-7	484.0375		487.0375	LASD HARBOR COLLEGE			1
LASD		LASD NEW	484.0500		487.0500	12.5 KHz Interstitial		PT	
LASD	REPEATER	LASD MAID-5	484.0625		487.0625	LARTCS			1
LASD		LASD NEW	484.0750		487.0750	12.5 KHz Interstitial		PT	
LASD	REPEATER	LASD MAID-2	484.0875		487.0875	LARTCS			1
LASD		LASD NEW	484.1000		487.1000	12.5 KHz Interstitial		PT	
LASD	REPEATER	LASD ATAC-4	484.1125		487.1125	LASD CUSTODY REPEATER #3			1
LASD		LASD NEW	484.1250		487.1250	12.5 KHz Interstitial		PT	
LASD	REPEATER	LASD MAID-4	484.1375		487.1375	LARTCS			1
LASD		LASD NEW	484.1500		487.1500	12.5 KHz Interstitial		PT	
LASD	REPEATER	LASD DISP-9	484.1625		487.1625	LASD CPT/LMT SIMPLEX			1

Appendix A.2

Fire Department UHF Communications Resource Potential and Available Channels

	CH	Uplink	Downlink
1		470.35	473.35
2	Blue 10	470.3625	473.3625
3		470.4	473.4
4	Blue 6	470.4125	473.4125
5		470.425	473.425
6	Blue 2	470.4375	473.4375
7		470.45	473.45
8	Blue 7	470.4625	473.4625
9		470.475	473.475
10	Blue 12	470.4875	473.4875
11		470.5	473.5
12	Blue 4	470.5125	473.5125
13		470.525	473.525
14	Blue 8	470.5375	473.5375
15		470.55	473.55
16	Blue 1	470.5625	473.5625
17		470.575	473.575
18	Blue 11	470.5875	473.5875
19		470.6	473.6
20	Blue 3	470.6125	473.6125
21		470.625	473.625
22	Blue 9	470.6375	473.6375
23		470.65	473.65
24	Blue 5	470.6625	473.6625
25		470.675	473.675

Appendix A.3
Internal Services Department
700 MHz Frequencies (12.5 KHz Center)*

1. 769.25625	39. 771.98125
2. 769.26875	40. 771.99375
3. 769.30625	41. 772.20625
4. 769.31875	42. 772.21875
5. 769.50625	43. 772.23125
6. 769.51875	44. 772.24375
7. 769.55625	45. 772.45625
8. 769.56875	46. 772.46875
9. 769.75625	47. 772.48125
10. 769.76875	48. 772.49375
11. 769.80625	49. 772.70625
12. 769.81875	50. 772.71875
13. 770.00625	51. 772.73125
14. 770.01875	52. 772.74375
15. 770.05625	53. 772.98125
16. 770.06875	54. 772.99375
17. 770.25625	55. 773.18125
18. 770.26875	56. 773.19375
19. 770.50625	57. 773.43125
20. 770.51875	58. 773.44375
21. 770.55625	59. 773.68125
22. 770.56875	60. 773.69375
23. 770.80625	61. 773.93125
24. 770.81875	62. 773.94375
25. 771.00625	63. 774.18125
26. 771.01875	64. 774.19375
27. 771.23125	65. 774.43125
28. 771.24375	66. 774.44375
29. 771.33125	67. 774.63125
30. 771.34375	68. 774.64375
31. 771.48125	69. 774.88125
32. 771.49375	70. 774.89375
33. 771.58125	
34. 771.59375	
35. 771.73125	
36. 771.74375	
37. 771.95625	
38. 771.96875	

* Mobile input frequencies 30 MHz up.



JOHN L. SCOTT, SHERIFF

County of Los Angeles
Sheriff's Department Headquarters
4700 Ramona Boulevard
Monterey Park, California 91754-2169



May 30, 2014



Jim Jones, Director
John Geiger, General Manager
County of Los Angeles
Internal Services Department
1100 North Eastern Avenue
Los Angeles, California 90063

Dear Director Jones and General Manager Geiger:

**SPECTRUM USE AGREEMENT BETWEEN THE COUNTY OF LOS ANGELES
AND
THE LOS ANGELES REGIONAL INTEROPERABLE COMMUNICATIONS SYSTEM**

The Los Angeles County Sheriff's Department (Department) has reviewed the attached draft of the Spectrum Use Agreement between the County of Los Angeles and the Los Angeles Regional Interoperable Communications System (LA-RICS) and approves of the provisions contained therein and as they relate to the Ultra High Frequency (Shared Frequencies) used by the Department. The Department also approves of LA-RICS' use of the Shared Frequencies attached to this correspondence.

Should you have any questions or concerns, please contact Lieutenant Mark Wilkins, Communications and Fleet Management Bureau at (323) 881-8275.

Sincerely,

JOHN L. SCOTT
SHERIFF

A Tradition of Service

SPECTRUM USE AGREEMENT

This SPECTRUM USE AGREEMENT (hereafter referred to as the "Spectrum Agreement") is made and entered into as of the Effective Date by and between the LOS ANGELES REGIONAL INTEROPERABLE COMMUNICATIONS SYSTEM AUTHORITY, a joint powers authority created under the laws of the State of California (the "Authority"), and the COUNTY OF LOS ANGELES, a political subdivision of the State of California (the "County"). The Authority and the County are sometimes collectively referred to as the "Parties," and sometimes individually and generically as a "Party."

RECITALS

R1. The Authority operates pursuant to a Joint Powers Agreement under California *Government Code* section 6500, *et seq.*, executed by its various Members during the first quarter of 2009, including the County on February 3, 2009 and as County contract number 76933 (the "JPA Agreement");

R2. On August 15, 2013, the Authority entered into contract with Motorola Solutions, Inc., a Delaware corporation, to design and implement a land mobile radio interoperable communications system ("LMR System") for use by its public entity Members, which will form part of the Los Angeles Regional Interoperable Communications System ("LA-RICS"). That contract, Agreement No. LA-RICS 007, is hereinafter referred to as the "LMR Agreement";

R3. Prior to 2012, the LMR System was originally intended to be implemented in Ultra High Frequency ("UHF frequencies") spectrum in 470-512 MHz ("the T-Band") currently licensed to the County and various other Members of the Authority. But, as a result of H.R. 3630/Public Law No. 112-96 (Middle Class Tax Relief and Job Creation Act of 2012), all public safety users, including the Authority, will have to vacate the T-Band spectrum by no later than early 2021 (47 USC §1413). Therefore, the Authority has developed a hybrid transition plan for the LMR System to include both T-Band frequencies and 700 MHz narrowband frequencies allotted pursuant to the Southern California 700 MHz Regional Communications Plan Region #5;

R4. In the absence of access to the T-Band spectrum, the Authority wishes to share certain 700 MHz and UHF frequencies of the County for the LMR System;

R5. The County holds or has applications pending for one or more valid Federal Communications Commission (FCC) licenses (the "Licenses") for certain 700 MHz and UHF frequencies (collectively the "Shared Frequencies"), as identified in Appendix A, for use by its Fire Department, Sheriff's Department and Internal Services Department.

R6. The County is currently using, and/or has intended public safety purposes for, the Shared Frequencies, separate and apart from LA-RICS;

R7. Pursuant to 47 C.F.R. §90.179, the FCC allows for sharing of radio frequencies under certain specified conditions;

R8. The Authority will need to use the Shared Frequencies identified in Appendix A to design, test, implement and operate the LMR System; and

R9. The County desires to assist the Authority by allowing the Authority to use the Shared Frequencies to design, test, implement and operate the LMR System, per the terms and conditions of this Spectrum Agreement..

NOW THEREFORE, based upon the foregoing Recitals, and in consideration of the obligations herein contained, the Authority and County agree as follow:

1.0 Sharing of Frequencies

- 1.1 The Authority may install the Shared Frequencies set forth in Appendix A into the infrastructure of its radio network and allow governmental entities that are Members, Affiliates or Subscribers of the Authority to install the Shared Frequencies into subscriber equipment (mobile and portable units) for the purpose of transmitting and receiving public safety communications through the LMR System. The Shared Frequencies will be integrated into the LMR System pursuant to a final system design to be determined and approved by the Authority.
- 1.2 The Authority acknowledges and agrees that the UHF Frequencies that make up the Shared Frequencies as identified in Appendix A, are currently being used by the County's Fire and Sheriff's Department, and that these departments will not release the UHF frequencies for full operational use by the Authority until such time as the LMR System has been fully tested, deemed operational, and these departments have agreed to transition over to the new LMR System.
- 1.2 Use of the Shared Frequencies is limited to the locations and technical parameters authorized pursuant to the Licenses, as well as by the terms and conditions of this Spectrum Agreement. The Authority acknowledges and agrees that expanded use of the Shared Frequencies by the Authority within the current geographic coverage area of the Licenses may require County to apply for and obtain license modifications from the FCC. Pursuant to Section 5.05 (Sharing of Frequencies) of the JPA Agreement, the Authority shall pay all fees associated with such license modifications.
- 1.3 The Authority agrees to limit use of the Shared Frequencies to Members, Subscribers or Affiliates of the Authority that are eligible for separate authorizations in the Public Safety Pool pursuant to Section 90.20(a) of the FCC's rules (47 C.F.R. § 90.20(a)), and further agrees that use of the Shared Frequencies shall be limited to purposes compliant with the requirements of Part 90 of the FCC's rules.
- 1.4 The Authority will only implement radio equipment that meets or exceeds all applicable standards including those adopted by the communications industry, but not limited to Parts 90 and 101 of the FCC Rules and Regulations.

- 1.5 The Authority will be responsible for mitigating any interference issues caused or created by the use of the Shared Frequencies. If the Authority's equipment causes interference to other users, the Authority must fully cooperate with the County, the injured party, and the FCC, to eliminate the interference. The County reserves the right to turn off offending equipment if harmful interference cannot be eliminated. The Authority agrees to coordinate use of the Shared Frequencies as with the California Public-Safety Radio Association ("CPRA") and to resolve any interference experienced to or from adjacent or co-channel users.
- 1.6 County agrees to cooperate with the Authority and its vendors to allow for system testing on the Shared Frequencies. The Authority warrants and agrees (i) that such testing shall be conducted compliant with FCC rules and in a manner that will minimize the potential for interference to existing County operations, (ii) that Licensee shall have an opportunity to pre-approve and observe the tests, and (iii) that the Authority and its vendors shall immediately cease any tests that in any way interferes with the County's operations.
- 2. Licensee Control**
- 2.1 This Spectrum Agreement does not constitute an assignment or transfer of control of the Licenses, and nothing in the Spectrum Agreement modifies or limits County's rights and obligations under the rules of the FCC or the Communications Act of 1934, as amended (the "Act"). County shall take appropriate steps to perfect and maintain Licenses in good standing with the FCC and make necessary applications to renew its Licenses in a timely manner. If County fails to do so, then the Authority shall so notify the County of its failure, and County shall take all actions to perfect or maintain the Licenses.
- 2.2 In the event that the County is subject to fines or penalties for violations of the FCC's rules or the Act, and to the extent the violations are the result of acts or omissions of the Authority, another Member, a Subscriber, or an Affiliate, then the Authority or the relevant Member, Subscriber, or Affiliate shall pay the relevant fines or penalties forthwith, as provided in Section 5.06 (Violations) of the JPA Agreement. Without limiting the foregoing, the Parties acknowledge and agree that the Authority is responsible to indemnify, defend, and hold harmless the County for such acts or omissions pursuant to Section 7.16 (Indemnification) of the JPA Agreement.
- 2.3 While all frequency and site licensing modification activities will be performed by the County with all costs reimbursed to the County by the Authority, the County will promptly notify the Authority of any issues, questions, or requests for additional information that may come from the FCC. The County will also promptly respond to the FCC after first conferring with the Authority.
- 2.4 The County will provide the Authority with copies of all licenses granted by the FCC for the Shared Frequencies, so that the Authority may post such licenses at the LMR System sites.

3. Term and Termination

- 3.1 The County reserves the right, in its sole discretion, to terminate this Spectrum Agreement, with or without cause, at any time. The County shall give written notification to the Authority at least twelve (12) months in advance of the termination date.
- 3.2 Prior to termination of this Spectrum Agreement, the Parties shall cooperate and take such steps as are reasonably necessary to minimize the impact of termination on public safety radio communications of the Parties.

4. Notices

- 4.1 Any notice required or permitted to be made hereunder shall be in writing and shall be delivered in the manner prescribed herein at the principal place of business of each Party. The Parties shall give notice by: (i) Personal delivery; or (ii) E-mail.
- 4.2 At any time, by providing written notice to the other Party to this Spectrum Agreement, any Party may change the place or e-mail address for giving notice. All written notices or correspondence sent in the described manner will be deemed given to a party on whichever date occurs earliest: (a) the date of personal delivery; or (b) the date of transmission, when sent by e-mail.
- 4.3 Any notice required or permitted to be made hereunder will be made to the following:

For the Authority:

Patrick J. Mallon, Executive Director
2525 Corporate Place, Suite 200
Los Angeles, California 90063
(323) 881-8291
Pat.Mallon@la-rics.org

For the County:

Jim Jones, Director
Internal Services Department
County of Los Angeles
1100 N. Eastern Avenue
Los Angeles, California 90063
(323) 267-2101
JJones@isd.lacounty.gov

5. Severability

If any one or more of the terms, provisions, promises, covenants, or conditions of this Spectrum Agreement were, to any extent, adjudged invalid or void for any reason whatsoever by a court of competent jurisdiction, each and all of the remaining terms, provisions, promises, covenants, and conditions of this Spectrum Agreement shall not be affected thereby and shall be valid and enforceable to the fullest extent permitted by law, unless such would materially frustrate the purpose of this Spectrum Agreement.

6. Assignment

This Spectrum Agreement may not be assigned by the Authority without the prior written consent of the County, which consent may be given or withheld in the County's sole discretion. Any such attempted assignment in violation of this Section is null and void.

7. Governing Law

This Spectrum Agreement shall be interpreted, governed, and enforced under the substantive and procedural laws of the State of California, except to the extent that such are pre-empted by federal law. This Spectrum Agreement is executed and shall be performed in the State of California, by California public entities.

8. Headings & Initial Capitalizations

8.1 The section headings are for convenience only and are not to be construed as modifying or governing the language of the Spectrum Agreement.

8.2 Unless otherwise specifically defined in this Spectrum Agreement, terms with initial letters capitalized shall have the specific meaning as defined in the LMR Agreement (i.e., Member, Affiliate, Subscriber).

9. Effective Date

This Spectrum Agreement shall become effective as of the date of the last signature hereto ("Effective Date"), and the Shared Frequencies shall be made available to the Authority pursuant to a mutually agreed upon schedule.

10. Merger

This Spectrum Agreement is the complete and exclusive statement of understanding between the Parties, and supersedes any previous agreements, whether written or oral, and all communications, relating to the Authority's use of Shared Frequencies.

11. Authorization Warranty

Each Party represents and warranty that the person executing this Spectrum Agreement is a duly authorized agent who has actual authority to bind the Party to each and every term, condition,

and obligation of this Spectrum Agreement, and that all requirements of the Party have been fulfilled to provide such actual authority.

[End of Terms & Conditions – Signature Page to Follow]

IN WITNESS WHEREOF, the Parties have caused this Spectrum Agreement to be executed and attested by its proper officers, directors, or members, thereunto duly authorized, as follows:

LOS ANGELES REGIONAL INTEROPERABLE COMMUNICATIONS SYSTEM
AUTHORITY

By: _____
Patrick J. Mallon
Executive Director

Date: _____

APPROVED AS TO FORM:

JOHN F. KRATTLI
COUNTY COUNSEL

By: _____
Truc L. Moore
Senior Deputy County Counsel

COUNTY OF LOS ANGELES

By: _____
Jim Jones, Director
Internal Services Department

Date: _____

APPROVED AS TO FORM:

JOHN F. KRATTLI
COUNTY COUNSEL

By: _____

Agency	Channel Configuration	Channel Name/Trunked Radio System Talkgroup	Downlink Frequency	TX Tone/NAC	Uplink Frequency	RX Tone/NAC	Remarks	Available Now	Available Date (PT=Post Transition or Date) Motorola will put in design, install, and test, but will not activate until agency approves.	Not Available
LASD		LASD DATA 2	470.6875		473.6875	25 KHz			PT	
LASD		LASD DATA 3	470.7375		473.7375	25 KHz			PT	
LASD		LASD NEW	470.7500		473.7500	12.5 KHz Interstitial			PT	
LASD		LASD DATA 7	470.7625		473.7625	25 KHz			PT	
LASD		LASD NEW	470.7750		473.7750	12.5 KHz Interstitial			PT	
LASD		LASD PAGING	470.7875		473.7875	25 KHz			PT	
LASD		LASD NEW	470.8000		473.8000	12.5 KHz Interstitial			PT	
LASD		LASD DATA 8 - N CNY ONLY	470.8125		473.8125		NORTH COUNTY ONLY SHARE WITH SOUTHBAY		PT	
LASD		LASD NEW	470.8250		473.8250	12.5 KHz Interstitial			PT	
LASD		LASD DATA 5	470.8375		473.8375	25 KHz			PT	
LASD		LASD NEW	470.8500		473.8500	12.5 KHz Interstitial			PT	
LASD		LASD DATA 4	470.8625		473.8625	25 KHz			PT	
LASD		LASD NEW	470.8750		473.8750	12.5 KHz Interstitial			PT	
LASD		LASD DATA 6	470.8875		473.8875	25 KHz			PT	
LASD		LASD NEW	470.9000		473.9000	12.5 KHz Interstitial			PT	
LASD		LASD DATA 10	470.9125		473.9125	25 KHz			PT	
LASD		LASD NEW	470.9250		473.9250	12.5 KHz Interstitial			PT	
LASD		LASD DATA 1	470.9375		473.9375	25 KHz			PT	
LASD		LASD	476.0125		479.0125		LASD ICIB-1/2 ENCRYPTED SIMPLEX		PT	
LASD		LASD	476.0250		479.0250		SIMPLEX-4	1	PT	
LASD		LASD	476.0375		479.0375		EOB-2 SIMPLEX		PT	
LASD		LASD	476.0500		479.0500		SEARCH & RESCUE "SAR-1" (NEW FREQ)		PT	
LASD		LASD	476.0625		479.0625		COMPTON STN METRO RPTR		PT	
LASD		LASD	476.0750		479.0750		ENCRYPTED VOICE (ENCRYP-A)	1		
LASD		LASD	476.0875		479.0875		SPL RPT2 MOB RX		PT	
LASD		LASD	476.1000		479.1000		PSD PARK TACTICAL RPT/DIR		PT	
LASD		LASD	476.1125		479.1125		FSB CIVIC CENTER REPEATER		PT	
LASD		LASD	476.1250		479.1250		FSB M.L. KING HOSP RPTR		PT	
LASD		LASD	476.1375		479.1375		FSB HARBOR HOSP REPEATER		PT	
LASD		LASD	476.1500		479.1500		FSB RANCHO HOSP REPEATER		PT	
LASD		LASD	476.1625		479.1625		FSB OLIVE VIEW HOSP REPEATER		PT	
LASD		LASD	476.1750		479.1750			1		
LASD		LASD	476.1875		479.1875		PALMDALE STN METRO RPTR		PT	
LASD		LASD	476.2000		479.2000		S-TAC 250 SIMPLEX	1		
LASD		LASD	476.2125		479.2125		COURT RPT5-A(162.2) / B(127.3)	1		
LASD		LASD	476.2250		479.2250		COURT RPT6-A(162.2) / B(127.3)	1		
LASD		LASD	476.2375		479.2375		COURT RPT7-A(162.2) / B(127.3)	1		
LASD		LASD	476.2500		479.2500		COURT RPT8-A(162.2) / B(127.3)	1		
LASD		LASD	476.2625		479.2625		COURT RPT9-A(162.2) / B(127.3)	1		
LASD		LASD	476.2750		479.2750		MISSION & ANTELOPE VLY COL		PT	
LASD		LASD	476.2875		479.2875		PIERCE COLLEGE RPTR		PT	
LASD		LASD	476.3000		479.3000		VALLEY COLLEGE RPTR		PT	
LASD		LASD	476.3125		479.3125		TRADE TECH COLLEGE RPTR		PT	
LASD		LASD	476.3250		479.3250		EAST LA COLLEGE RPTR		PT	
LASD		LASD	476.3375		479.3375		LA CITY COLLEGE RPTR		PT	
LASD		LASD	476.3500		479.3500		HARBOR COLLEGE RPTR		PT	
LASD		LASD	476.3625		479.3625		WEST LA COLLEGE RPTR		PT	
LASD		LASD	476.3750		479.3750		SOUTHWEST COLLEGE RPTR		PT	
LASD		LASD	476.3875		479.3875		WAS SAR-1, MOVED TO CH-4	1		
LASD		LASD	476.4000		479.4000		LASD/LARTCS RTC8U/MARPTR	1		
LASD		LASD	476.4125		479.4125		LASD FACILITIES FCILTY-1 SPX	1		
LASD		LASD	476.4250		479.4250			1		
LASD		LASD	476.4375		479.4375			1		
LASD		LASD	476.4500		479.4500			1		
LASD		LASD	476.4625		479.4625			1		
LASD		LASD	476.4750		479.4750			1		
LASD		LASD	476.4875		479.4875			1		
LASD		LASD	476.5000		479.5000			1		
LASD		LASD	476.5125		479.5125			1		
LASD		LASD	476.5250		479.5250			1		
LASD		LASD	476.5375		479.5375			1		
LASD		LASD	476.5500		479.5500			1		
LASD		LASD	476.5625		479.5625			1		
LASD		LASD	476.5750		479.5750			1		
LASD		LASD	476.5875		479.5875			1		
LASD		LASD	476.6000		479.6000			1		
LASD		LASD	476.6125		479.6125			1		
LASD		LASD	476.6250		479.6250			1		
LASD		LASD	476.6375		479.6375			1		
LASD		LASD	476.6500		479.6500			1		
LASD		LASD	476.6625		479.6625			1		
LASD		LASD	476.6750		479.6750			1		
LASD		LASD	476.6875		479.6875			1		
LASD		LASD	476.7000		479.7000			1		
LASD		LASD	476.7125		479.7125			1		
LASD		LASD	476.7250		479.7250			1		
LASD		LASD	476.7375		479.7375			1		
LASD		LASD	476.7500		479.7500			1		
LASD		LASD	476.7625		479.7625			1		
LASD		LASD	476.7750		479.7750			1		
LASD		LASD	476.7875		479.7875			1		

LASD		LASD	476.8000	479.8000		1		
LASD		LASD	476.8125	479.8125		1		
LASD		LASD	476.8250	479.8250		1		
LASD		LASD	476.8375	479.8375		1		
LASD		LASD	476.8500	479.8500		1		
LASD		LASD	476.8625	479.8625		1		
LASD		LASD	476.8750	479.8750		1		
LASD		LASD	476.8875	479.8875		1		
LASD		LASD	476.9000	479.9000		1		
LASD		LASD	476.9125	479.9125		1		
LASD		LASD	476.9250	479.9250		1		
LASD		LASD	476.9375	479.9375		1		
LASD		LASD	476.9500	479.9500		1		
LASD		LASD	476.9625	479.9625		1		
LASD		LASD	476.9750	479.9750		1		
LASD		LASD	476.9875	479.9875		1		
LASD		LASD	477.0000	480.0000		1		
LASD		LASD	477.0125	480.0125		1		
LASD		LASD	477.0250	480.0250		1		
LASD		LASD	477.0375	480.0375		1		
LASD		LASD	477.0500	480.0500		1		
LASD		LASD	477.0625	480.0625		1		
LASD		LASD	477.0750	480.0750		1		
LASD		LASD	477.0875	480.0875		1		
LASD		LASD	477.1000	480.1000		1		
LASD		Pasadena System 7.7-1						1
LASD		Chan 1	477.1125	480.1125				
LASD		LASD	477.1250	480.1250		1		
LASD		LASD	477.1375	480.1375		1		
LASD		LASD	477.1500	480.1500		1		
LASD		LASD	477.1625	480.1625		1		
LASD		LASD	477.1750	480.1750		1		
LASD		LASD	477.1875	480.1875		1		
LASD		LASD	477.2000	480.2000		1		
LASD		Pasadena System 7.7-2						1
LASD		Chan 1	477.2125	480.2125				
LASD		LASD	477.2250	480.2250		1		
LASD		LASD	477.2375	480.2375		1		
LASD		LASD	477.2500	480.2500		1		
LASD		Pasadena System 7.7-1						1
LASD		Chan 2	477.2625	480.2625				
LASD		LASD	477.2750	480.2750		1		
LASD		LASD	477.2875	480.2875		1		
LASD		LASD	477.3000	480.3000		1		
LASD		LASD	477.3125	480.3125		1		
LASD		LASD	477.3250	480.3250		1		
LASD		LASD	477.3375	480.3375		1		
LASD		LASD	477.3500	480.3500		1		
LASD		Pasadena System 7.7-2						1
LASD		Chan 2	477.3625	480.3625				
LASD		LASD	477.3750	480.3750		1		
LASD		LASD	477.3875	480.3875		1		
LASD		LASD	477.4000	480.4000		1		
LASD		Pasadena System 7.7-1						1
LASD		Chan 3	477.4125	480.4125				
LASD		LASD	477.4250	480.4250		1		
LASD		LASD	477.4375	480.4375		1		
LASD		LASD	477.4500	480.4500		1		
LASD		LASD	477.4625	480.4625		1		
LASD		LASD	477.4750	480.4750		1		
LASD		LASD	477.4875	480.4875		1		
LASD		LASD	477.5000	480.5000		1		
LASD		Pasadena System 7.7-2						1
LASD		Chan 3	477.5125	480.5125				
LASD		LASD	477.5250	480.5250		1		
LASD		LASD	477.5375	480.5375		1		
LASD		LASD	477.5500	480.5500		1		
LASD		Pasadena System 7.7-1						1
LASD		Chan 4	477.5625	480.5625				
LASD		LASD	477.5750	480.5750		1		
LASD		LASD	477.5875	480.5875		1		
LASD		LASD	477.6000	480.6000		1		
LASD		LASD	477.6125	480.6125		1		
LASD		LASD	477.6250	480.6250		1		
LASD		LASD	477.6375	480.6375		1		
LASD		LASD	477.6500	480.6500		1		
LASD		Pasadena System 7.7-2						1
LASD		Chan 4	477.6625	480.6625				
LASD		LASD	477.6750	480.6750		1		
LASD		LASD	477.6875	480.6875		1		
LASD		LASD	477.7000	480.7000				
LASD		Pasadena System 7.7-1						1
LASD		Chan 5	477.7125	480.7125				
LASD		LASD	477.7250	480.7250		1		
LASD		LASD	477.7375	480.7375		1		
LASD		LASD	477.7500	480.7500		1		
LASD		LASD	477.7625	480.7625		1		
LASD		LASD	477.7750	480.7750		1		
LASD		LASD	477.7875	480.7875		1		
LASD		LASD	477.8000	480.8000		1		
LASD		Pasadena System 7.7-1						1
LASD		Chan 5	477.8125	480.8125				
LASD		LASD	477.8250	480.8250		1		
LASD		LASD	477.8375	480.8375		1		
LASD		LASD	477.8500	480.8500		1		
LASD		LASD	477.8625	480.8625		1		
LASD		LASD	477.8750	480.8750		1		
LASD		LASD	477.8875	480.8875		1		
LASD		LASD	477.9000	480.9000		1		

LASD		LASD	477.9125	480.9125		1	
LASD		LASD	477.9250	480.9250		1	
LASD		LASD	477.9375	480.9375		1	
LASD		LASD	477.9500	480.9500		1	
LASD		LASD	477.9625	480.9625		1	
LASD		LASD	477.9750	480.9750		1	
LASD		LASD	477.9875	480.9875		1	
LASD		LASD	478.0000	481.0000		1	
LASD		LASD	478.0125	481.0125		1	
LASD		LASD	478.0250	481.0250		1	
LASD		LASD	478.0375	481.0375		1	
LASD		LASD	478.0500	481.0500		1	
LASD		LASD	478.0625	481.0625		1	
LASD		LASD	478.0750	481.0750		1	
LASD		LASD	478.0875	481.0875		1	
LASD		LASD	478.1000	481.1000		1	
LASD		LASD	478.1125	481.1125		1	
LASD		LASD	478.1250	481.1250		1	
LASD		LASD	478.1375	481.1375		1	
LASD		LASD	478.1500	481.1500		1	
LASD		LASD	478.1625	481.1625		1	
LASD		LASD	478.1750	481.1750		1	
LASD		LASD	478.1875	481.1875		1	
LASD		LASD	478.2000	481.2000		1	
LASD		LASD	478.2125	481.2125		1	
LASD		LASD	478.2250	481.2250		1	
LASD		LASD	478.2375	481.2375		1	
LASD		LASD	478.2500	481.2500		1	
LASD		LASD	478.2625	481.2625		1	
LASD		LASD	478.2750	481.2750		1	
LASD		LASD	478.2875	481.2875		1	
LASD		LASD	478.3000	481.3000		1	
LASD		LASD	478.3125	481.3125		1	
LASD		LASD	478.3250	481.3250		1	
LASD		LASD	478.3375	481.3375		1	
LASD		LASD	478.3500	481.3500		1	
LASD		LASD	478.3625	481.3625		1	
LASD		LASD	478.3750	481.3750		1	
LASD		LASD	478.3875	481.3875	PUBLIC SAFETY LAW-1 SPLX	1	
LASD		LASD	478.4000	481.4000	ENCRYPT VOICE "COMMON-1"	1	
LASD		LASD	478.4125	481.4125	PUBLIC SAFETY FIRE-1 SPLX	1	
LASD		LASD	478.4250	481.4250		1	
LASD		LASD	478.4375	481.4375	DA WMET/SDM/PMNA/SFV/SCV	1	
LASD		LASD	478.4500	481.4500		1	
LASD		LASD	478.4625	481.4625		1	
LASD		LASD	478.4750	481.4750	S-TAC 27R RPTR MOB RX	1	
LASD		LASD	478.4875	481.4875	PUBLIC SAFETY "ALL-1" SMPLX	1	
LASD		LASD	478.5000	481.5000		1	
LASD		LASD	478.5125	481.5125	LASD/LARTCS RTC7U/MA RPTR	1	
LASD		LASD	478.5250	481.5250	LA DA'S OFFICE SIMPLEX-A		PT
LASD		LASD	478.5375	481.5375		1	
LASD		LASD	478.5500	481.5500	LA CNTY FIRE U-19 RPT/DIR	1	
LASD		LASD	478.5625	481.5625		1	
LASD		LASD	478.5750	481.5750	LASD/EOB "EOB-1" PRIBL RPTR	1	
LASD		LASD	478.5875	481.5875		1	
LASD		LASD	478.6000	481.6000		1	
LASD		LASD	478.6125	481.6125	S-TAC 28R RPTR MOB RX	1	
LASD		LASD	478.6250	481.6250	S-TAC 29R RPTR MOB RX	1	
LASD		LASD	478.6375	481.6375	S-TAC 30R RPTR MOB RX	1	
LASD		LASD	478.6500	481.6500	LA CNTY FIRE U-20 RPT/DIR	1	
LASD		LASD	478.6625	481.6625		1	
LASD		LASD	478.6750	481.6750	PUBLIC SAFETY LAW-3 SMPLX	1	
LASD		LASD	478.6875	481.6875		1	
LASD		LASD	478.7000	481.7000	ENCRYPT VOICE REPEATER-1	1	
LASD		LASD	478.7125	481.7125		1	
LASD		LASD	478.7250	481.7250	PUBLIC SAFETY "ALL-3" SMPLX	1	
LASD		LASD	478.7375	481.7375		1	
LASD		LASD	478.7500	481.7500	LA CNTY FIRE U-21 RPT/DIR	1	
LASD		LASD	478.7625	481.7625		1	
LASD		LASD	478.7750	481.7750	ENCRYPTED VOICE (ENCRYP-C)	1	
LASD		LASD	478.7875	481.7875		1	
LASD		LASD	478.8000	481.8000		1	
LASD		LASD	478.8125	481.8125	DA ANTELOPE/PASO/SGV/SLA	1	
LASD		LASD	478.8250	481.8250		1	
LASD		LASD	478.8375	481.8375		1	
LASD		LASD	478.8500	481.8500	LA CNTY FIRE U-22 RPT/DIR	1	
LASD		LASD	478.8625	481.8625		1	
LASD		LASD	478.8750	481.8750	ENCRYPT VOICE REPEATER-2	1	
LASD		LASD	478.8875	481.8875	RTC9U/MA SMPLX & SPL RPT3 INPUT	1	
LASD		LASD	478.9000	481.9000	ENCRYPT VOICE "COMMON-3"	1	
LASD		LASD	478.9125	481.9125	PUBLIC SAFETY FIRE-3 SMPX	1	
LASD		LASD	478.9250	481.9250		1	
LASD		LASD	478.9375	481.9375		1	
LASD		LASD	478.9500	481.9500	LA CNTY FIRE U-23 RPT/DIR	1	
LASD		LASD	478.9625	481.9625	ENCRYPTED VOICE (ENCRYP-E)	1	
LASD		LASD	478.9750	481.9750	PUBLIC SAFETY LAW-5 SMPX		PT
LASD		LASD	478.9875	481.9875	LA CNTY FIRE U-24 RPT/DIR		PT
LASD		LASD	479.0000	482.0000	SAR "WINCH" & SRS TEST CH.		PT
LASD	REPEATER	LASD CTAC-1	482.8125	485.8125	LASD Special Unit Operation #1		1
LASD		LASD NEW	482.8250	485.8250	12.5 KHz Interstitial		PT
LASD	REPEATER	LASD CTAC-2	482.8375	485.8375	LASD Special Unit Operation #2		1
LASD		LASD NEW	482.8500	485.8500	12.5 KHz Interstitial		PT
LASD	REPEATER	LASD DISP-5	482.8625	485.8625	LASD PIERCE COLLEGE		1
LASD		LASD NEW	482.8750	485.8750	12.5 KHz Interstitial		PT
LASD	REPEATER	LASD LTAC-2	482.8875	485.8875	LASD W. LA COLLEGE		1
LASD		LASD NEW	482.9000	485.9000	12.5 KHz Interstitial		PT

LASD	REPEATER	LASD DISP-10	482.9125	485.9125	LASD LHS/WHI SIMPLEX		1
LASD		LASD NEW	482.9250	485.9250	12.5 KHz Interstitial	PT	
LASD	REPEATER	LASD DISP-6	482.9375	485.9375	LASD WALSDM SIMPLEX		1
LASD		LASD NEW	482.9500	485.9500	12.5 KHz Interstitial		
LASD	REPEATER	LASD SV-2	482.9625	485.9625		PT	
LASD		LASD NEW	482.9750	485.9750	12.5 KHz Interstitial	PT	
LASD	REPEATER	LASD DISP-11	482.9875	485.9875	LASD TEM/ALD SIMPLEX		1
LASD		LASD NEW	483.0000	486.0000	12.5 KHz Interstitial	PT	
LASD	REPEATER	LASD ATAC-3	483.0125	486.0125	LASD Special Unit Operation #5		1
LASD		LASD NEW	483.0250	486.0250	12.5 KHz Interstitial	PT	
LASD	REPEATER	LASD DISP-15	483.0375	486.0375	LASD LAN/PLM SIMPLEX		1
LASD		LASD NEW	483.0500	486.0500	12.5 KHz Interstitial	PT	
LASD	REPEATER	LASD LTAC-TSB/CTAC-3	483.0625	486.0625	LASD TSB LTAC		1
LASD		LASD NEW	483.0750	486.0750	12.5 KHz Interstitial	PT	
LASD	REPEATER	LASD ATAC-1	483.0875	486.0875	LASD Special Unit Operation #3		1
LASD		LASD NEW	483.1000	486.1000	12.5 KHz Interstitial	PT	
LASD	REPEATER	LASD LTAC-8	483.1125	486.1125	LASD L.A. VALLEY COLLEGE		1
LASD		LASD NEW	483.1250	486.1250	12.5 KHz Interstitial	PT	
LASD	REPEATER	LASD DISP-14	483.1375	486.1375	LASD LKD/CER SIMPLEX		1
LASD		LASD NEW	483.1500	486.1500	12.5 KHz Interstitial	PT	
LASD	REPEATER	LASD ATAC-2	483.1625	486.1625	LASD Special Unit Operation #4		1
LASD		LASD NEW	483.1750	486.1750	12.5 KHz Interstitial	PT	
LASD	REPEATER	LASD LTAC-11	483.1875	486.1875	LASD CVS/SCT		1
LASD		LASD NEW	483.2000	486.2000	12.5 KHz Interstitial	PT	
LASD	REPEATER	LASD DISP-3	483.2125	486.2125	LASD EAST L.A. COLLEGE		1
LASD		LASD NEW	483.2250	486.2250	12.5 KHz Interstitial	PT	
LASD	REPEATER	LASD LTAC-7	483.2375	486.2375	LASD AWA/ELA SIMPLEX		1
LASD		LASD NEW	483.2500	486.2500	12.5 KHz Interstitial	PT	
LASD	REPEATER	LASD DISP-4	483.2625	486.2625	LASD CEN/CSN SIMPLEX		1
LASD		LASD NEW	483.2750	486.2750	12.5 KHz Interstitial	PT	
LASD	REPEATER	LASD EMERGENCY	483.2875	486.2875	LASD Preserved for legacy radios		1
LASD		LASD NEW	483.3000	486.3000	12.5 KHz Interstitial	PT	
LASD	REPEATER	LASD TSB DISP	483.3125	486.3125	LASD TSB DISP		1
LASD		LASD NEW	483.3250	486.3250	12.5 KHz Interstitial	PT	
LASD	REPEATER	LASD DET-2	483.3375	486.3375	LASD COURT REPEATER #5		1
LASD		LASD NEW	483.3500	486.3500	12.5 KHz Interstitial	PT	
LASD	REPEATER	LASD DISP-2	483.3625	486.3625	LASD LA CITY COLLEGE		1
LASD		LASD NEW	483.3750	486.3750	12.5 KHz Interstitial	PT	
LASD	REPEATER	LASD LTAC-3	483.3875	486.3875	LASD MDR/LNX SIMPLEX		1
LASD		LASD NEW	483.4000	486.4000	12.5 KHz Interstitial	PT	
LASD	REPEATER	LASD LTAC-12	483.4125	486.4125	LASD COURT REPEATER #2		1
LASD		LASD NEW	483.4250	486.4250	12.5 KHz Interstitial	PT	
LASD	REPEATER	LASD DISP-12	483.4375	486.4375	LASD S.W. COLLEGE		1
LASD		LASD NEW	483.4500	486.4500	12.5 KHz Interstitial	PT	
LASD	REPEATER	LASD LTAC-5	483.4625	486.4625	LASD COURT REPEATER #9		1
LASD		LASD NEW	483.4750	486.4750	12.5 KHz Interstitial	PT	
LASD	REPEATER	LASD LTAC-6	483.4875	486.4875	LASD COURT REPEATER #10		1
LASD		LASD NEW	483.5000	486.5000	12.5 KHz Interstitial	PT	
LASD	REPEATER	LASD DET-7	483.5125	486.5125	LASD COURT REPEATER #8		1
LASD		LASD NEW	483.5250	486.5250	12.5 KHz Interstitial	PT	
LASD	REPEATER	LASD SUD	483.5375	486.5375	LASD SEB SIMPLEX 1/2		1
LASD		LASD NEW	483.5500	486.5500	12.5 KHz Interstitial	PT	
LASD	REPEATER	LASD SCC	483.5625	486.5625	LARTCS		1
LASD		LASD NEW	483.5750	486.5750	12.5 KHz Interstitial	PT	
LASD	REPEATER	LASD MAID-1	483.5875	486.5875	LARTCS		1
LASD		LASD NEW	483.6000	486.6000	12.5 KHz Interstitial	PT	
LASD	REPEATER	LASD DET-4	483.6125	486.6125	LASD COURT REPEATER #6		1
LASD		LASD NEW	483.6250	486.6250	12.5 KHz Interstitial	PT	
LASD	REPEATER	LASD ABO	483.6375	486.6375	ABO Backup		1
LASD		LASD NEW	483.6500	486.6500	12.5 KHz Interstitial	PT	
LASD	REPEATER	LASD DET-6	483.6625	486.6625	LASD COURT REPEATER #7		1
LASD		LASD NEW	483.6750	486.6750	12.5 KHz Interstitial	PT	
LASD	REPEATER	LASD DISP-8	483.6875	486.6875	LASD IDT SIMPLEX		1
LASD		LASD NEW	483.7000	486.7000	LASD CUSTODY REPEATER #1		1
LASD	REPEATER	LASD CUSTODY	483.7125	486.7125	LASD CUSTODY REPEATER #2		1
LASD		LASD NEW	483.7250	486.7250	12.5 KHz Interstitial	PT	
LASD	REPEATER	LASD DET-5	483.7375	486.7375	LASD CUSTODY REPEATER #5		1
LASD		LASD NEW	483.7500	486.7500	12.5 KHz Interstitial	PT	
LASD	REPEATER	LASD DISP-13	483.7625	486.7625	LASD NWK/PRV SIMPLEX		1
LASD		LASD NEW	483.7750	486.7750	12.5 KHz Interstitial	PT	
LASD	REPEATER	LASD MAID-3	483.7875	486.7875	LARTCS		1
LASD		LASD NEW	483.8000	486.8000	12.5 KHz Interstitial	PT	
LASD	REPEATER	LASD DET-3	483.8125	486.8125	LASD CUSTODY REPEATER #4		1
LASD		LASD NEW	483.8250	486.8250	12.5 KHz Interstitial	PT	
LASD	REPEATER	LASD PORTABLE RPT	483.8375	486.8375	LASD PORTABLE REPEATER		1
LASD		LASD NEW	483.8500	486.8500	12.5 KHz Interstitial	PT	
LASD	REPEATER	LASD LTAC-9	483.8625	486.8625	LASD COURT REPEATER #3		1
LASD		LASD NEW	483.8750	486.8750	12.5 KHz Interstitial	PT	
LASD	REPEATER	OCS LAC-USC MED	483.8875	486.8875	LASD OCS LAC-USC MED		1

LASD		LASD NEW	483.9000		486.9000	12.5 KHz Interstitial		PT	
LASD	REPEATER	LASD LTAC-12	483.9125		486.9125	LASD LA TRADE TECH			1
LASD		LASD NEW	483.9250		486.9250	12.5 KHz Interstitial		PT	
LASD	REPEATER	LASD COURT SRVCE	483.9375		486.9375	LASD COURT REPEATER #1			1
LASD		LASD NEW	483.9500		486.9500	12.5 KHz Interstitial		PT	
LASD	REPEATER	LASD LTAC-4	483.9625		486.9625	LASD COURT REPEATER #4			1
LASD		LASD NEW	483.9750		486.9750	12.5 KHz Interstitial		PT	
LASD	REPEATER	LASD DISP-1	483.9875		486.9875	LASD MISSION COLLEGE			1
LASD		LASD NEW	484.0000		487.0000	12.5 KHz Interstitial		PT	
LASD	REPEATER	LASD LTAC-10	484.0125		487.0125	LASD CUSTODY REPEATER #6			1
LASD		LASD NEW	484.0250		487.0250	12.5 KHz Interstitial		PT	
LASD	REPEATER	LASD DISP-7	484.0375		487.0375	LASD HARBOR COLLEGE			1
LASD		LASD NEW	484.0500		487.0500	12.5 KHz Interstitial		PT	
LASD	REPEATER	LASD MAID-5	484.0625		487.0625	LARTCS			1
LASD		LASD NEW	484.0750		487.0750	12.5 KHz Interstitial		PT	
LASD	REPEATER	LASD MAID-2	484.0875		487.0875	LARTCS			1
LASD		LASD NEW	484.1000		487.1000	12.5 KHz Interstitial		PT	
LASD	REPEATER	LASD ATAC-4	484.1125		487.1125	LASD CUSTODY REPEATER #3			1
LASD		LASD NEW	484.1250		487.1250	12.5 KHz Interstitial		PT	
LASD	REPEATER	LASD MAID-4	484.1375		487.1375	LARTCS			1
LASD		LASD NEW	484.1500		487.1500	12.5 KHz Interstitial		PT	
LASD	REPEATER	LASD DISP-8	484.1625		487.1625	LASD CPT/LMT SIMPLEX			1



COUNTY OF LOS ANGELES

FIRE DEPARTMENT

1320 NORTH EASTERN AVENUE
LOS ANGELES, CALIFORNIA 90063-3294

DARYL L. OSBY
FIRE CHIEF
FORESTER & FIRE WARDEN

June 17, 2014

Patrick Mallon, Executive Director
LA-RICS Authority
2525 Corporate Place, Suite 200
Monterey Park, CA 91754

Dear Mr. Mallon:

The Los Angeles County Fire Department has reviewed the attached draft of the Spectrum Use Agreement between LA-RICS and the County of Los Angeles ("Agreement") and approves entering into such Agreement as it relates to the Shared Frequencies used by this Department and as described under Section 1.2 of the Agreement, which provides:

- 1.2 "The Authority acknowledges and agrees that the UHF Frequencies that make up the Shared Frequencies as identified in Appendix A, are currently being used by the County's Fire and Sheriff's Department, and that these departments will not release the UHF frequencies for full operational use by the Authority until such time as the LMR System has been fully tested, deemed operational, and these departments have agreed to transition over to the new LMR System."

Our list of Shared Frequencies is also attached.

Should you have any questions on this matter, please contact Assistant Fire Chief Chris Bundesen at (323) 881-2370.

Very truly yours,

DARYL L. OSBY, FIRE CHIEF

DLO:ps

Attachments

HOA.1074614.1

SERVING THE UNINCORPORATED AREAS OF LOS ANGELES COUNTY AND THE CITIES OF:

AGOURA HILLS
ARTESIA
AZUSA
BALDWIN PARK
BELL
BELL GARDENS
BELLFLOWER
BRADBURY

CALABASAS
CARSON
CERRITOS
CLAREMONT
COMMERCE
COVINA
CUDAHY

DIAMOND BAR
DUARTE
EL MONTE
GARDENA
GLENDALE
HAWAIIAN GARDENS
HAWTHORNE

HIDDEN HILLS
HUNTINGTON PARK
INDUSTRY
INGLEWOOD
IRVINDALE
LA CANADA FLINTRIDGE
LA HABRA

LA MIRADA
LA PUENTE
LAKEWOOD
LANCASTER
LAWNDALE
LOMITA
LYNWOOD

MALIBU
MAYWOOD
NORWALK
PALMDALE
PALOS VERDES ESTATES
PARAMOUNT
PICO RIVERA

POMONA
RANCHO PALOS VERDES
ROLLING HILLS
ROLLING HILLS ESTATES
ROSEMEAD
SAN DIMAS
SANTA CLARITA

SIGNAL HILL
SOUTH EL MONTE
SOUTH GATE
TEMPLE CITY
WALNUT
WEST HOLLYWOOD
WESTLAKE VILLAGE
WHITTIER

SPECTRUM USE AGREEMENT

This SPECTRUM USE AGREEMENT (hereafter referred to as the "Spectrum Agreement") is made and entered into as of the Effective Date by and between the LOS ANGELES REGIONAL INTEROPERABLE COMMUNICATIONS SYSTEM AUTHORITY, a joint powers authority created under the laws of the State of California (the "Authority"), and the COUNTY OF LOS ANGELES, a political subdivision of the State of California (the "County"). The Authority and the County are sometimes collectively referred to as the "Parties," and sometimes individually and generically as a "Party."

RECITALS

R1. The Authority operates pursuant to a Joint Powers Agreement under California *Government Code* section 6500, *et seq.*, executed by its various public agency members ("Members") during the first quarter of 2009, including the County on February 3, 2009 as County contract number 76933 (the "JPA Agreement");

R2. On August 15, 2013, the Authority entered into contract with Motorola Solutions, Inc., a Delaware corporation, to design and implement a land mobile radio interoperable communications system ("LMR System") for use by its public entity Members, as part of the planned Los Angeles Regional Interoperable Communications System ("LA-RICS"). That contract, Authority agreement No. LA-RICS 007, is hereinafter referred to as the "LMR Agreement";

R3. Prior to 2012, the LMR System was originally intended to be implemented in Ultra High Frequency ("UHF frequencies") spectrum in 470-512 MHz ("the T-Band") currently licensed to the County and various other Members of the Authority. But, as a result of H.R. 3630/Public Law No. 112-96 (Middle Class Tax Relief and Job Creation Act of 2012), all public safety users, including the Authority, would have to, subject to the rules of the FCC auction, vacate the T-Band spectrum by no later than early 2021 (47 USC §1413). Instead, the Authority has developed a hybrid transition plan for the LMR System to include both T-Band frequencies and 700 MHz narrowband frequencies allotted pursuant to the Southern California 700 MHz Regional Communications Plan Region #5;

R4. In the absence of access to the T-Band spectrum, the Authority wishes to share certain 700 MHz and UHF frequencies of the County for the LMR System;

R5. The County holds or has applications pending for one or more valid Federal Communications Commission (FCC) licenses (the "Licenses") for certain 700 MHz and UHF frequencies (collectively the "Shared Frequencies"), as identified in Appendix A, for use by its Fire Department, Sheriff's Department, and Internal Services Department in the Countywide Integrated Radio System ("CWIRS"). CWIRS is used by a number of County departments, including Health Services, Public Work, Probation, Animal Care & Control, and the Internal Services Department, for day-to-day operations, and is the County's primary disaster recovery mobile communications system in a major emergency incident;

R6. The County is currently using, and/or has intended public safety purposes for, the Shared Frequencies, separate and apart from LA-RICS;

R7. Pursuant to 47 C.F.R. §90.179, the FCC allows for sharing of radio frequencies under certain specified conditions;

R8. Section 5.05 of the JPA Agreement, operates as a statute of frauds, requiring that frequency sharing between any Member and the Authority is valid and enforceable only by written agreement; and

R9. The County desires to assist the Authority by allowing the Authority to use the Shared Frequencies to design, test, implement and operate the LMR System, per the terms and conditions of this Spectrum Agreement.

NOW THEREFORE, based upon the foregoing Recitals, and in consideration of the obligations herein contained, the Authority and County agree as follow:

1.0 Sharing of Frequencies

- 1.1 The Authority may install the Shared Frequencies set forth in Appendix A into the infrastructure of its radio network and allow governmental entities that are Members, Affiliates or Subscribers of the Authority to install the Shared Frequencies into subscriber equipment (mobile and portable units) for the purpose of transmitting and receiving public safety communications through the LMR System. The Shared Frequencies will be integrated into the LMR System pursuant to a final system design to be determined and approved by the Authority.
- 1.2 The Authority acknowledges and agrees that the UHF Frequencies that make up the Share Frequencies as identified in Appendix A, are currently being used by the County's Fire and Sheriff's Department, and that these departments will not release the UHF frequencies for full operational use by the Authority until such time as the LMR System has been fully tested, deemed operational, and these departments have agreed to transition over to the new LMR System.
- 1.3 Use of the Shared Frequencies is limited to the locations and technical parameters authorized pursuant to the Licenses, as well as by the terms and conditions of this Spectrum Agreement. The Authority acknowledges and agrees that expanded use of the Shared Frequencies by the Authority within the current geographic coverage area of the Licenses may require County to apply for and obtain license modifications from the FCC. Pursuant to Section 5.05 (Sharing of Frequencies) of the JPA Agreement, the Authority shall pay all fees associated with such license modifications.
- 1.4 The Authority agrees to limit use of the Shared Frequencies to Members, Subscribers or Affiliates of the Authority that are eligible for separate authorizations in the Public Safety Pool pursuant to Section 90.20(a) of the FCC's rules (47 C.F.R. § 90.20(a)), and

further agrees that use of the Shared Frequencies shall be limited to purposes compliant with the requirements of Part 90 of the FCC's rules.

- 1.5 The Authority will only implement radio equipment that meets or exceeds all applicable communication industry standards, including but not limited to Parts 90 and 101 of the FCC Rules and Regulations.
- 1.6 The Authority is responsible for mitigating any interference issues caused or created by the use of the Shared Frequencies. If the Authority's equipment causes interference to other users, the Authority must fully cooperate with the County, the injured party, and the FCC, to eliminate the interference. The County reserves the right to turn off offending equipment if harmful interference cannot be eliminated.
- 1.7 The Authority agrees to coordinate use of the Shared Frequencies with the California Public-Safety Radio Association ("CPRA") and to resolve any interference experienced to or from adjacent or co-channel users.
- 1.8 County agrees to cooperate with the Authority and its vendors to allow for system testing on the Shared Frequencies. The Authority warrants and agrees (i) that such testing shall be conducted compliant with FCC rules and in a manner that will minimize the potential for interference, and any actual interference, to existing County operations, (ii) that County shall have an opportunity to pre-approve and observe the tests, and (iii) that the Authority and its vendors shall immediately cease any tests that in any way interferes with the County's operations as determined in the sole discretion of the County.

2. Licensee Control

- 2.1 This Spectrum Agreement does not constitute an assignment or transfer of control of the Licenses, and nothing in the Spectrum Agreement modifies or limits County's rights and obligations under the rules of the FCC or the Communications Act of 1934, as amended (the "Act"). County shall take appropriate steps to perfect and maintain Licenses in good standing with the FCC and make necessary applications to renew its Licenses in a timely manner. If County fails to do so, then the Authority shall so notify the County of its failure, and County shall, subject to the terms of this Spectrum Agreement and the JPA Agreement, take all reasonable actions necessary to perfect or maintain the Licenses.
- 2.2 In the event that the County is subject to fines or penalties for violations of the FCC's rules or the Act, and to the extent the violations are the result of acts or omissions of the Authority, another Member, or a subscriber or an affiliate of the Authority, then the Authority shall pay the relevant fines or penalties forthwith, as provided in Section 5.06 (Violations) of the JPA Agreement. Without limiting the foregoing, the Parties acknowledge and agree that the Authority is responsible to indemnify, defend, and hold harmless the County for, among other things, such fines, penalties, acts, and/or omissions pursuant to Section 7.16 (Indemnification) of the JPA Agreement.

- 2.3 While all frequency licensing will be performed by the County with all costs reimbursed to the County by the Authority, the County will promptly notify the Authority of any issues, questions, or requests for additional information that may come from the FCC. The County will also promptly respond to the FCC after first conferring with the Authority, unless events outside the control of the County prevent such consultation with the Authority.
- 2.4 The County will provide the Authority with copies of all licenses granted by the FCC for the Shared Frequencies, so that the Authority may post such licenses at the LMR System sites.

3. Term and Termination

- 3.1 The County reserves the right, in its sole discretion, to terminate this Spectrum Agreement, with or without cause, at any time. Subject to any shorter termination periods allowed to Members in the JPA Agreement, the County shall give written notification to the Authority at least twelve (12) months in advance of the termination date.
- 3.2 Prior to termination of this Spectrum Agreement, the Parties shall cooperate and take such steps as are reasonably necessary to minimize the impact of termination on public safety radio communications of the Parties.

4. Notices

- 4.1 Any notice required or permitted to be made hereunder shall be in writing and shall be delivered in the manner prescribed herein at the principal place of business of each Party. The Parties shall give notice by: (i) Personal delivery; or (ii) E-mail.
- 4.2 At any time, by providing written notice to the other Party to this Spectrum Agreement, any Party may change the place or e-mail address for giving notice. All written notices or correspondence sent in the described manner will be deemed given to a party on whichever date occurs earliest: (a) the date of personal delivery; or (b) the date of transmission, when sent by e-mail.
- 4.3 Any notice required or permitted to be made hereunder will be made to the following:

For the Authority:

Patrick J. Mallon, Executive Director
2525 Corporate Place, Suite 200
Los Angeles, California 90063
(323) 881-8291
Pat.Mallon@la-rics.org

For the County:

Jim Jones, Director
Internal Services Department
County of Los Angeles
1100 N. Eastern Avenue
Los Angeles, California 90063
(323) 267-2101
JJones@isd.lacounty.gov

5. Severability

If any one or more of the terms, provisions, promises, covenants, or conditions of this Spectrum Agreement were, to any extent, adjudged invalid or void for any reason whatsoever by a court of competent jurisdiction, each and all of the remaining terms, provisions, promises, covenants, and conditions of this Spectrum Agreement shall not be affected thereby and shall be valid and enforceable to the fullest extent permitted by law, unless such would materially frustrate the purpose of this Spectrum Agreement.

6. Assignment

This Spectrum Agreement may not be assigned by the Authority without the prior written consent of the County, which consent may be given or withheld in the County's sole and unfettered discretion. Any such attempted or purported assignment by the Authority in violation of this Section is null and void.

7. Governing Law

This Spectrum Agreement shall be interpreted, governed, and enforced under the substantive and procedural laws of the State of California, except to the extent that such are pre-empted by federal law. This Spectrum Agreement is executed and shall be performed in the State of California, by California public entities.

8. Headings & Initial Capitalizations

8.1 The section headings are for convenience only and are not to be construed as modifying or governing the language of the Spectrum Agreement.

9. Effective Date

This Spectrum Agreement shall become effective as of the date that it has been duly authorized and approved by the Authority's Board of Directors and the County's Board of Supervisors (the "Effective Date"). Thereafter, the Shared Frequencies shall be made available to the Authority pursuant to a mutually agreed-upon schedule.

10. Merger

This Spectrum Agreement, along with the JPA Agreement, is the complete and exclusive statement of understanding between the Parties, and supersedes any previous agreements, whether written or oral, and all communications, relating to the Authority's use of Shared Frequencies.

11. Authorization Warranty

Each Party represents and warranty that the person executing this Spectrum Agreement is a duly authorized agent who has actual authority to bind the Party to each and every term, condition, and obligation of this Spectrum Agreement, and that all requirements of the Party have been fulfilled to provide such actual authority.

[End of Terms & Conditions – Signature Page to Follow]

IN WITNESS WHEREOF, the Parties have caused this Spectrum Agreement to be executed and attested by its proper officers, directors, or members, thereunto duly authorized, as follows:

LOS ANGELES REGIONAL INTEROPERABLE
COMMUNICATIONS SYSTEM AUTHORITY

By: _____
PATRICK J. MALLON
Executive Director

Date: _____

APPROVED AS TO FORM:

JOHN F. KRATTLI
County Counsel

By: _____
TRUC L. MOORE
Senior Deputy County Counsel

COUNTY OF LOS ANGELES

By: _____
JIM JONES, Director
Internal Services Department

Date: _____

APPROVED AS TO FORM:

JOHN F. KRATTLI
County Counsel

By: _____
Deputy

SPECIAL SERVICES BUREAU

BRIEFING SHEET

Deputy Chief Angel Montoya

DATE

June 16, 2014

SUBJECT

Spectrum Use Agreement Between LA-RICS and the County of Los Angeles ISD, Sheriff, and LACoFD

BRIEF SUMMARY

LA-RICS has selected a Land Mobile Radio (LMR) vendor and is moving into the detailed design phase. This phase of the project will involve radio frequency coordination. Frequency licensing and ownership is a very sensitive issue and may have extreme implication to the success of the LA-RICS Project and the survivability of LACoFD existing communications systems. LA-RICS is asking for approval to use LACoFD's frequencies.

PERTINENT INFORMATION

Through a joint effort with County of Los Angeles ISD, Sheriff, and LACoFD the attached agreement is allowing LA-RICS to use County radio frequencies for the migration of the new radio system. We anticipate this agreement to be presented to the County Board of Supervisors for approval in July 2014. Once these frequencies have been released to LA-RICS for use, their usage will be governed by the Joint Powers Authority (JPA). In accordance to the LA-RICS (JPA), all of the agencies will still obtain frequency licenses and manage their own frequencies. However, if the agencies' frequencies work within the design parameter of the new LA-RICS System, the agencies can allow LA-RICS to use the frequencies as part of the system build out via a Spectrum Use Agreement for the Shared Frequencies. If the agencies choose to withdraw their frequencies from LA-RICS, the agencies must give LA-RICS a one-year written notice before they can take the frequencies back. This gives LA-RICS enough time to resolve the loss of shared frequencies.

RECOMMENDATIONS

Approve the attached Spectrum Use Agreement.

PERSONNEL INVOLVED

Assistant Fire Chief Chris Bundesen, Command and Control Division
Battalion Chief Kirby Neese, Radio Subject Matter Expert, LA-RICS
Scott England, Telecommunications System Consulting Engineer, Command and Control Division
Claudia Gutierrez, County Counsel on behalf of Scott Kuhn
Truc Moore, County Counsel

ATTACHMENTS

Response letter to Executive Director Patrick Mallon
Spectrum Use Agreement between LA-RICS and County of Los Angeles
LACoFD Shared Frequencies for the LA-RICS System

COSTS

N/A